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Water Resources Data for Illinois, Water Year 1977

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Water Resources Data for Illinois

Water Year 1977

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT IL-77-1

Prepared in cooperation with the State of Illinois and with other agencies

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SPRINGFIELD, VA. 22161

CALENDAR FOR WATER YEAR 1977

1976

OCTOBER

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1977

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Water resources data for the 1977 water year for Illinois consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 163 gaging stations; stage only records for 5 gaging stations; stage and contents for 3 lakes and reservoirs; stage only for 5 lake stations; water quality for 46 gaging stations, 14 partial-record stations, 8 miscellaneous stations, and 35 wells; and water levels for 3 observation wells. Also included are data for 171 crest-stage partial-record stations and 60 flood-profile stations. Additional water data were collected at various sites, not involved in the systematic data collection program and are published as miscellaneous measurements. These data represent that part or the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Illinois.

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PREFACE

This report was prepared by personnel of the Illinois district of the Water Resources Division of the U.S. Geological Survey under the supervision of L. A. Martens, District Chief, and J. T. Callahan, Regional Hydrologist, succeeded by F. T. Schaefer, Acting Regional Hydrologist, Northeastern Region. It was done in cooperation with the State of Illinois and with other agencies.

This report is one of a series issued by State. General direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, U.S. Geological Survey, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

Water Resources Data for Illinois

Water Year 1977

U.S. DEPARTMENT OF THE INTERIOR
MARCH 3, 1849

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT IL-77-1

Prepared in cooperation with the State of Illinois and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

W. A. Radlinski, Acting Director

For information on the water program in Illinois write to

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Champaign, Illinois 61820

1978

CONTENTS

Page

Preface III
List of gaging stations, in downstream order, for which records are published VI
Introduction 1
Cooperation 1
Hydrologic conditions 2
Definition of terms 2
Downstream order and station numbers 7
Numbering system for wells and miscellaneous sites 7
Special networks and programs 8
Explanation of stage and water-discharge records 8
  Collection and computation of data 8
  Accuracy of field data and computed results 10
  Other data available 11
Explanation of water-quality records 11
  Collection and examination of data 11
  Water analysis 11
  Water temperatures 11
  Sediment 12
Explanation of ground-water level records 12
  Collection of the data 12
Publications on techniques of water-resources investigations 13
Gaging station records 21
Discharge at partial-record stations and miscellaneous sites 357
  Crest-stage partial-record stations 357
  Miscellaneous sites 386
Annual maximum stage data in northeastern Illinois 394
Analyses of samples collected at water-quality partial-record stations 400
Analyses of samples collected at miscellaneous sites 404
Miscellaneous water temperature measurements 406
Ground-water records 425
  Ground-water level records 425
  Quality of ground-water records 426
Index 429

ILLUSTRATIONS

Figure 1. System for numbering wells and miscellaneous sites 8
2. Discharge during 1977 water year compared with median discharge for period 1941-70 for three representative gaging stations 15
3. Map showing location of active surface-water gaging stations 16
4. Map showing location of water-quality stations and observation wells 18

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[Letter after station name designates type of data: (d) discharge, (c) chemical, (b) biological, (m) microbiological, (t) water temperature, (s) sediment, (e) elevation, stage, or contents]

Page

OHIO RIVER BASIN

- Ohio River:
  - WABASH RIVER BASIN
  - Wabash River:
    - Vermilion River:
      - Salt Fork near St. Joseph (d) 21
        - Saline Branch:
          - Boneyard Creek at Urbana (d) 22
    - Vermilion River near Danville (d) 23
    - Embarras River near Camargo (d) 24
    - Embarras River near Diona (d) 25
      - Range Creek near Casey (d) 26
    - Embarras River at Ste. Marie (d) 27
      - North Fork Embarras River near Oblong (d) 28
    - Bonpas Creek at Browns (d) 29
    - Little Wabash River near Effingham (d) 30
    - Little Wabash River at Louisville (dcts) 31
    - Little Wabash River below Clay City (d) 37
    - Little Wabash River at Blood (e) 38
    - Little Wabash River near Golden Gate (e) 39
      - Skillet Fork near Iuka (d) 40
        - Horse Creek near Keenes (d) 41
      - Skillet Fork at Wayne City (d) 42
      - Skillet Fork near Mill Shoals (e) 43
    - Little Wabash River at Carmi (d) 44
- Ohio River at Old Shawneetown (t) 45
  - SALINE RIVER BASIN
  - South Fork Saline River near Carrier Mills (dc) 47
    - Middle Fork Saline River:
      - Bankston Fork:
        - Brushy Creek near Harco(d) 51
  - Saline River:
    - Eagle Creek near Equality (d) 52
  - LUSK CREEK BASIN
  - Lusk Creek near Eddyville (d) 53
- Ohio River at Golconda (d) 54
- Ohio River at Metropolis (d) 55
  - CACHE RIVER BASIN
  - Cache River at Forman (d) 56

STREAMS TRIBUTARY TO LAKE MICHIGAN

- CALUMET RIVER BASIN
- Calumet River at Chicago (t) 57
  - Wolf Lake at Chicago (e) 59
- Lake Michigan at Calumet Park at Chicago (t) 60

UPPER MISSISSIPPI RIVER BASIN

- Mississippi River:
  - SINSINAWA RIVER BASIN
  - Sinsinawa River near Menominee (d) 62
  - APPLE RIVER BASIN
  - Apple River near Hanover (d) 63
  - PLUM RIVER BASIN
  - Plum River below Carroll Creek near Savanna (d) 64
- Mississippi River at Dam 13 near Fulton (t) 65
- Mississippi River at Clinton, Iowa (d) 67
- Mississippi River at Dam 14 near Hampton (t) 68
  - ROCK RIVER BASIN
  - Rock River:
    - Pecatonica River at Freeport (d) 70
  - Rock River at Rockton (d) 71
    - Rockford Drainage Ditch at 26th Street at Rockford (c) 72
    - Kishwaukee River:
      - Coon Creek at Riley (d) 73
    - Kishwaukee River at Belvidere (d) 74
      - South Branch Kishwaukee River near Fairdale (d) 75
    - Kishwaukee River near Perryville (d) 76
  - Rock River at Oregon (t) 77
    - Elkhorn Creek near Penrose (d) 79
  - Rock River near Joslin (dcbmt) 80
    - Green River near Geneseo (d) 90
    - Mill Creek at Milan (d) 91

Page

UPPER MISSISSIPPI RIVER BASIN--Continued

EDWARDS RIVER BASIN

Edwards River near Orion (d)........ 92
Edwards River near New Boston (d)........ 93

POPE CREEK BASIN

Pope Creek near Keithsburg (d)........ 94

HENDERSON CREEK BASIN

Henderson Creek near Oquawka (d)........ 95
Mississippi River at Keokuk, Iowa (d)........ 96

BEAR CREEK BASIN

Bear Creek near Marcelline (d)........ 97

HADLEY CREEK BASIN

Hadley Creek at Kinderhook (d)........ 98

BAY CREEK BASIN

Bay Creek at Pittsfield (d)........ 99
Bay Creek at Nebo (d)........ 100

ILLINOIS RIVER BASIN

Kankakee River (head of Illinois River) at Momence (dt)........ 101
Iroquois River at Iroquois (d)........ 104
Sugar Creek at Milford (d)........ 105
Iroquois River near Chebanse (d)........ 106
Kankakee River near Wilmington (dct)........ 107
Des Plaines River at Russell (d)........ 112
Des Plaines River near Gurnee (dc)........ 113
Buffalo Creek near Wheeling (d)........ 116
Des Plaines River near Des Plaines (d)........ 117
McDonald Creek near Mount Prospect (d)........ 118
Weller Creek at Des Plaines (d)........ 119
Salt Creek at Rolling Meadows (d)........ 120
Salt Creek at Western Springs (d)........ 121
Addison Creek at Bellwood (d)........ 122
Des Plaines River at Riverside (d)........ 123
Flag Creek near Willow Springs (d)........ 124
Des Plaines River at Romeo (t)........ 125
Chicago Sanitary and Ship Canal:
North Branch Chicago River at Deerfield (d)........ 127
Skokie River at Lake Forest (d)........ 128
Skokie River near Highland Park (d)........ 129
West Fork of North Branch Chicago River at Northbrook (d)........ 130
North Branch Chicago River at Niles (d)........ 131
Chicago Sanitary and Ship Canal at Ashland Ave. at Chicago (t)........ 132
Little Calumet River (head of Calumet Sag Channel):
Thorn Creek near Chicago Heights (d)........ 134
Thorn Creek at Glenwood (d)........ 135
Deer Creek near Chicago Heights (d)........ 136
Butterfield Creek at Flossmoor (d)........ 137
North Creek:
Lansing ditch near Lansing (d)........ 138
North Creek near Lansing (d)........ 139
Thorn Creek at Thornton (d)........ 140
Little Calumet River at South Holland (d)........ 141
Midlothian Creek at Oak Forest (d)........ 142
Calumet Sag Channel at Blue Island (t)........ 143
Tinley Creek near Palos Park (d)........ 145
Chicago Sanitary and Ship Canal at Romeo (t)........ 146
Illinois and Michigan Canal:
Long Run near Lemont (d)........ 148
Des Plaines River at Rockdale (t)........ 149
Hickory Creek at Joliet (d)........ 151
Des Plaines River at Channahon (t)........ 152
Du Page River:
West Branch Du Page River near West Chicago (d)........ 154
West Branch Du Page River near Warrenville (dc)........ 155
Du Page River at Shorewood (d)........ 158
Illinois River at Dresden Island (t)........ 159
Mazon River near Coal City (d)........ 161
Illinois River at Marseilles (dcbmt)........ 162
Fox River near Channel Lake (s)........ 171
Channel Lake near Antioch (e)........ 172
Fox Lake near Lake Villa (e)........ 173
Nippersink Lake at Fox Lake (e)........ 174
Nippersink Creek near Spring Grove (ds)........ 175
Fox River at Johnsburg (e)........ 177
Boone Creek near McHenry (d)........ 178
Fox River near McHenry (e)........ 179

Page

UPPER MISSISSIPPI RIVER BASIN--Continued
ILLINOIS RIVER BASIN--Continued

Fox River at Algonquin (d) 180
Poplar Creek at Elgin (dc) 181
Ferson Creek near St. Charles (d) 184
Blackberry Creek near Yorkville (d) 185
Fox River at Dayton (d) 186
Illinois River at Starved Rock (t) 187
Vermilion River at Pontiac (d) 189
Vermilion River near Leonore (d) 190
Big Bureau Creek at Princeton (d) 191
Farm Creek at Farmdale (d) 192
Ackerman Creek at Farmdale (d) 193
Fondulac Creek near East Peoria (d) 194
Farm Creek at East Peoria (d) 195
Illinois River at Lock & Dam at Peoria (t) 196
Mackinaw River:
Money Creek near Towanda (d) 198
Panther Creek:
East Branch Panther Creek at El Paso (d) 199
Mackinaw River near Congerville (d) 200
Illinois River at Kingston Mines (dt) 201
Spoon River:
Indian Creek near Wyoming (d) 204
Spoon River at London Mills (d) 205
Spoon River at Seville (d) 206
Big Creek at St. David (dcts) 207
Evelyn Branch near Bryant (dct) 214
Big Creek near Bryant (dcts) 220
Slug Run near Bryant (dcts) 227
Sangamon River at Mahomet (d) 235
Sangamon River at Monticello (d) 236
Friends Creek at Argenta (d) 237
Sangamon River near Oakley (d) 238
Stevens Creek:
Spring Creek:
Spring Creek tributary at Decatur (c) 239
South Fork Sangamon River:
Flat Branch near Taylorville (d) 241
Horse Creek at Pawnee (d) 242
Brush Creek near Divernon (d) 243
South Fork Sangamon River near Rochester (d) 244
Spring Creek at Springfield (d) 245
Salt Creek near Rowell (d) 246
Lake Fork near Cornland (d) 247
Kickapoo Creek at Waynesville (d) 248
Sugar Creek below Franklin Avenue at Normal (cm) 249
North Branch Sugar Creek at Normal (cm) 251
West Slough at Bloomington (cm) 255
Sugar Creek above Sewage Plant at Bloomington (cm) 257
Sugar Creek near Bloomington (dcm) 259
Salt Creek near Greenview (d) 262
Sangamon River near Oakford (dct) 263
La Moine River:
East Fork La Moine River:
Drowning Fork at Bushnell (d) 268
La Moine River at Colmar (dcm) 269
La Moine River at Ripley (dcm) 272
Illinois River at Lock & Dam at La Grange (t) 275
Illinois River at Meredosia (d) 277
Illinois River at Valley City (cbmt) 278
Macoupin Creek:
Otter Creek near Palmyra (d) 287
Macoupin Creek near Kane (d) 288
Illinois River at Hardin (t) 289
Mississippi River at Alton (dct) 291
CAHOKIA CREEK BASIN
Cahokia Creek at Edwardsville (d) 296
Cahokia diversion channel:
Indian Creek at Wanda (d) 297
CAHOKIA CANAL BASIN
Cahokia Canal:
Canteen Creek at Caseyville (d) 298

Page

UPPER MISSISSIPPI RIVER BASIN--Continued

KASKASKIA RIVER BASIN

- Kaskaskia Ditch at Bondville (d) 299
- Kaskaskia River near Pesotum (d) 300
  - Lake Fork at Atwood (d) 301
- Kaskaskia River at Cooks Mills (dc) 302
  - Asa Creek at Sullivan (d) 305
- Lake Shelbyville near Shelbyville (e) 306
- Kaskaskia River at Shelbyville (d) 307
- Kaskaskia River near Cowden (d) 308
  - Wolf Creek near Beecher City (d) 309
- Kaskaskia River at Vandalia (d) 310
  - Hurricane Creek near Mulberry Grove (d) 311
- Carlyle Lake near Carlyle (e) 312
- Kaskaskia River at Carlyle (d) 313
  - Crooked Creek near Hoffman (d) 314
    - Little Crooked Creek near New Minden (d) 315
  - West Fork Shoal Creek:
    - Blue Grass Creek near Raymond (d) 316
  - Shoal Creek:
    - East Fork Shoal Creek near Coffeen (d) 317
  - Shoal Creek near Breese (d) 318
  - Sugar Creek at Albers (d) 319
- Kaskaskia River near Venedy Station (dcbmt) 320
  - Mud Creek near Marissa (d) 329
  - Silver Creek near Troy (d) 330
  - Silver Creek near Freeburg (d) 331
  - Richland Creek near Hecker (d) 332

BIG MUDDY RIVER BASIN

- Big Muddy River:
  - Casey Fork:
    - Sevenmile Creek near Mt. Vernon (d) 333
- Rend Lake near Benton (e) 334
- Big Muddy River at Plumfield (d) 335
  - Crab Orchard Creek near Marion (d) 336
  - Crab Orchard Lake near Carterville (e) 337
  - Beaucoup Creek near Matthews (d) 338
- Big Muddy River at Murphysboro (dcbmt) 339

LOWER MISSISSIPPI RIVER BASIN

- Mississippi River at St. Louis, Mo. (d) 352
- Mississippi River at Kellogg (t) 353
- Mississippi River at Chester (d) 355
- Mississippi River at Thebes (d) 356

INTRODUCTION

Water resources data for the 1977 water year for Illinois consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 163 gaging stations; stage only records for 5 gaging stations; stage and contents for 3 lakes and reservoirs; stage only for 5 lake stations; water quality for 46 gaging stations, 14 partial-record stations, 8 miscellaneous stations, and 35 wells; and water levels for 3 observation wells. Also included are data for 171 crest-stage partial-record stations and 60 flood-profile stations. Additional water data were collected at various sites, not involved in the systematic data collection program and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Illinois.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report IL-77-1." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22151.

COOPERATION

The U.S. Geological Survey and organizations of the State of Illinois have had cooperative agreements for the systematic collection of streamflow records since 1930, and for water-quality records since 1953. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

State Department of Registration and Education, R. E. Stackler, succeeded by Joan G. Anderson, director, through Water Survey Division, W. C. Ackermann, chief.

State Department of Transportation, Langhorne Bond, succeeded by John D. Kramer, secretary, through Division of Water Resources, L. M. Eisel, director, succeeded by D. R. Vonnahme, acting director, and Division of Highways, H. R. Hanley, director.

Illinois Environmental Protection Agency, R. H. Briceland, director, succeeded by L. M. Eisel, director, succeeded by M. P. Mauzy, acting director.

Bloomington and Normal Sanitary District, E. B. Mercier, president.

Forest Preserve District of Cook County, George W. Dunne, president, Board of County Commissioners, A. L. Janura, superintendent.

Fountain Head Drainage District, H. G. Corum, succeeded by R. H. Schultz, commissioner.

Sanitary District of Bloom Township, C. A. Luecke, president, J. E. Meers, manager, succeeded by J. L. Daugherty, manager.

The Metropolitan Sanitary District of Greater Chicago, N. J. Melas, president, and B. T. Lynam, superintendent.

County of Du Page, Highway Department, R. A. Dold, superintendent.

McHenry County Regional Planning Commission, J. R. Quay, director, succeeded by S. E. Aradas, director.

City of Springfield, W. C. Telford, mayor, James Henneberry, commissioner.

Assistance in the form of funds or services was given by the Corps of Engineers. U.S. Army, in collecting records for 68 gaging stations, 1 water-quality station, and for miscellaneous measurements published in this report, and by the National Oceanic and Atmospheric Administration of the U.S. Department of Commerce.

Organizations that supplied data are acknowledged in station descriptions.

HYDROLOGIC CONDITIONS

Streamflow was deficient as the 1977 water year began, and continued to decline until July when periods of heavy rain increased streamflow. Flows for July recovered to near average for the month. Periods of heavy rain occurred in August and September and streamflow for these two months was above average. Some minor flooding occurred during this period in the central and southern parts of the State. A flash flood occurred near Chicago on September 25 when a record 2.23 inches of rain fell in 30 minutes. Recorded rainfall for September in the Chicago area was three times normal. Extremely cold temperatures covered the State from December through February with January being recorded as the coldest on record, and coupled with very low streamflows, produced an extended ice period from early December until mid-February. Streamflow in June and July approached record lows as near drought conditions prevailed throughout most of the spring and early summer months.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting English units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Adenosine triphosphate (ATP) is the primary energy donor in cellular life process. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms which produce colonies within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/s, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to the amount of substance present in true chemical solution. In practice, however, the term includes all forms of substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is the area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram (μg/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L, μg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2), acres, or hectares. Periphyton benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay..........	0.00024 - 0.004	Sedimentation.
Silt..........	.004 - .062	Sedimentation.
Sand..........	.062 - 2.0	Sedimentation or sieve.
Gravel........	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass or volume.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides which control insects and plants respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (CI). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg C/(m^2·time)] for periphyton and macrophytes and [mg C/(m^3·time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg $O_2/(m^2 \cdot time)$] for periphyton and macrophytes and [mg $O_2/(m^3 \cdot time)$] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

Natural substrates refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lived.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45 micrometer filter.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. Fox example, the taxonomy of a particular mayfly, Hexagenia limbata is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	Hexageria
Species	Hexagenia limbata

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual basic-data reports.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 03339500, which appears just to the left of the station name, includes the 2-digit part number "03" plus the 6-digit downstream order number "339500".

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 1 below.

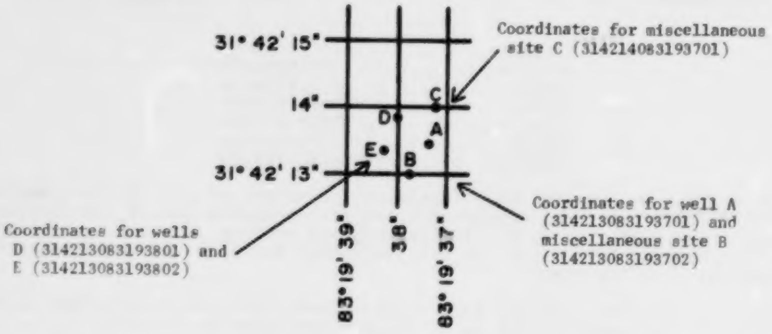

31° 42' 15"
14"
31° 42' 13"
83° 19' 39"
38"
83° 19' 37"
A
B
C
D
E
Coordinates for miscellaneous site C (314214083193701)
Coordinates for well A (314213083193701) and miscellaneous site B (314213083193702)
Coordinates for wells D (314213083193801) and E (314213083193802)

Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard text-books, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some northern stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If a stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

Skeleton rating tables are published, immediately following EXTREMES, for stream-gaging stations where they serve a useful purpose and the dates of applicability can be easily identified.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A sketeton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation, or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good", within 10 percent; and "fair", within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

EXPLANATION OF WATER QUALITY RECORDS

Collection and examination of data

Surface water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diel temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where temperature is recorded on charts, maximum and minimum values are manually processed and at stations where temperature is recorded on tape, maximum, minimum, and mean values are machine processed for publication.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Only ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figure 1.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to either mean sea level (msl) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-two manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. *Water temperature-influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 p. $1.60.

2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. $1.90.

2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. $1.75.

3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. $0.25.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. $0.20.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. $0.40.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. $1.00.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. $0.30.

3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages. $0.20.

3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. $0.45.

3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. $1.25.

3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. $0.40.

3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. $0.35. Not currently available.

3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. $0.70.

3-B2. *Introduction to ground-water hydraulics-a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. $0.65.

3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages. $0.70.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. $1.15.

4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. $0.30.

4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. $0.20.

4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. $0.65.

4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. $0.75.

4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. $0.75.

4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. $0.65.

5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases*, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. $2.40.

5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. $0.80.

5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. $0.90.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by K. V. Slack, R. C. Averett, P. E. Greeson, and R. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1973. 165 pages. $1.95.

5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. $0.65.

7-C1. *Finite-difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages. $2.30.

8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages. $0.70.

8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. $0.40.

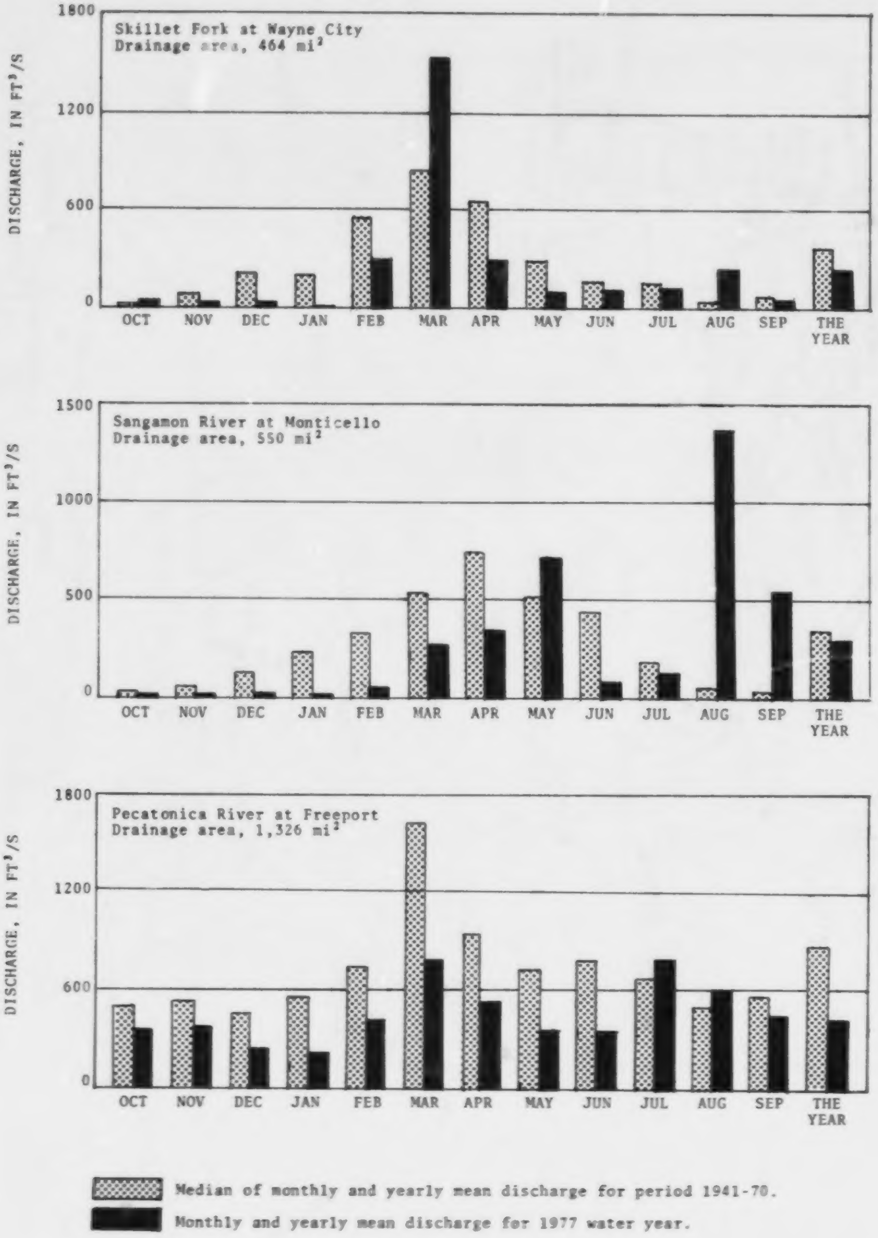
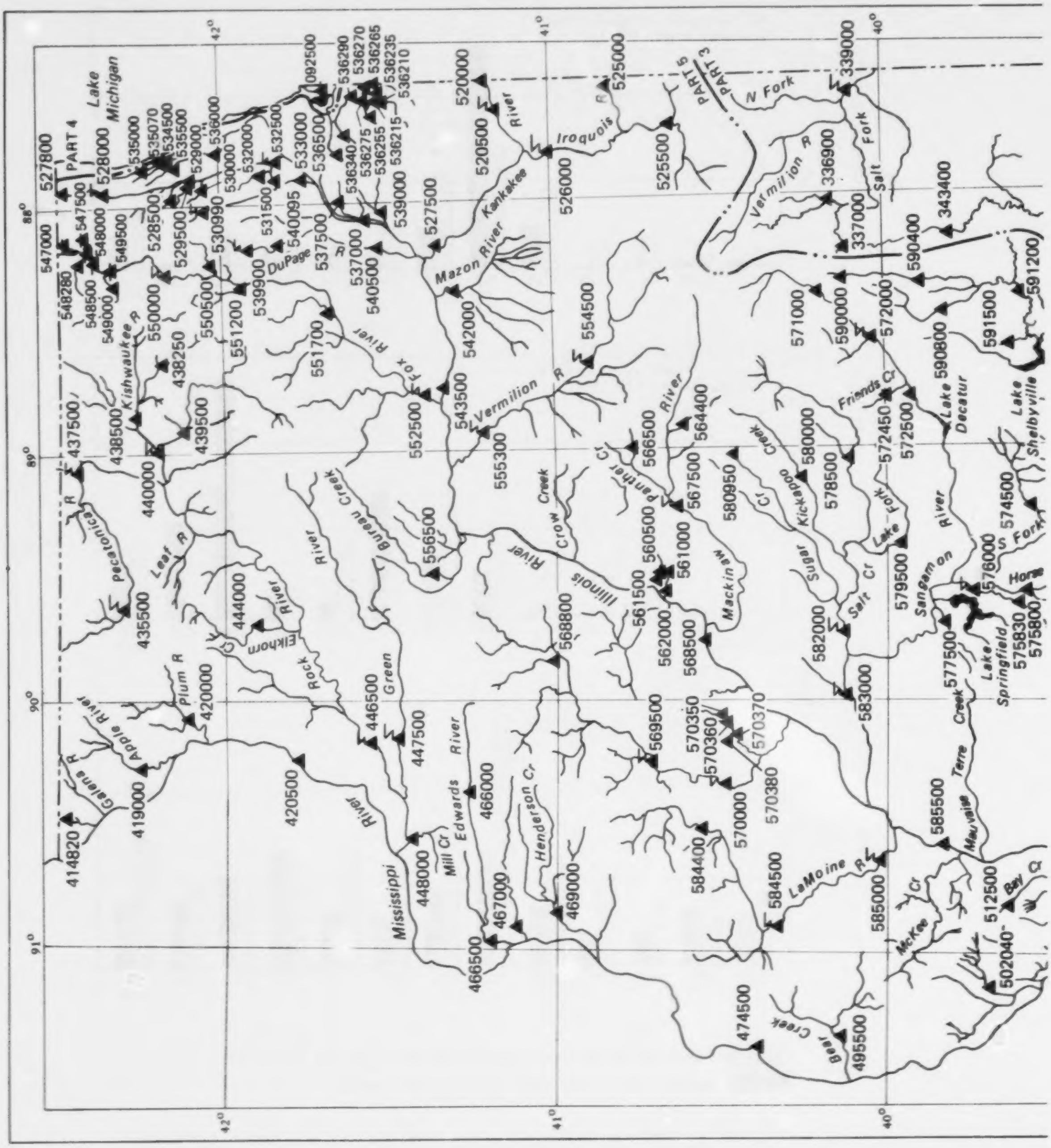
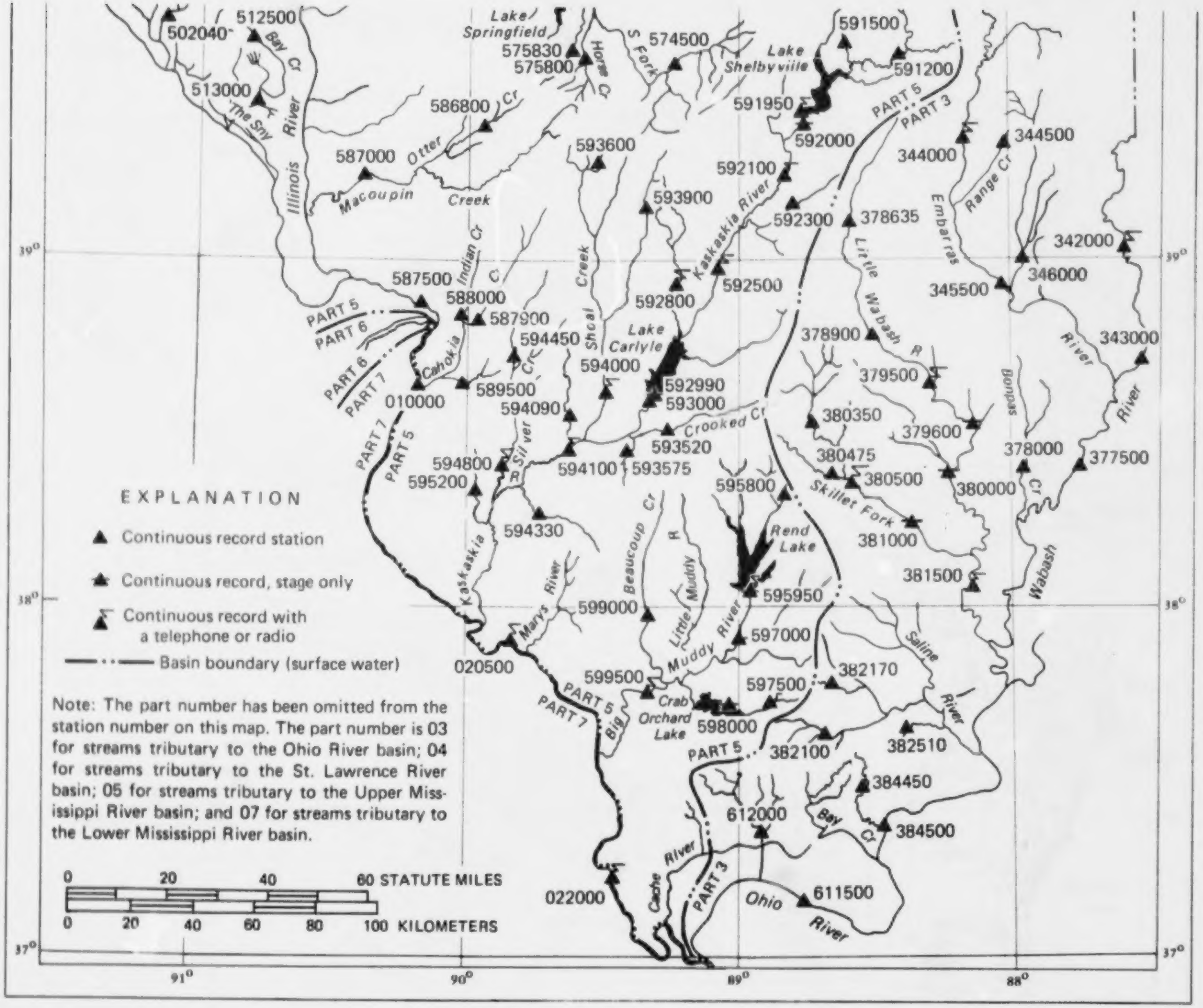


Figure 2.--Discharge during 1977 water year compared with median discharge for the period 1941-70 for three representative gaging stations.

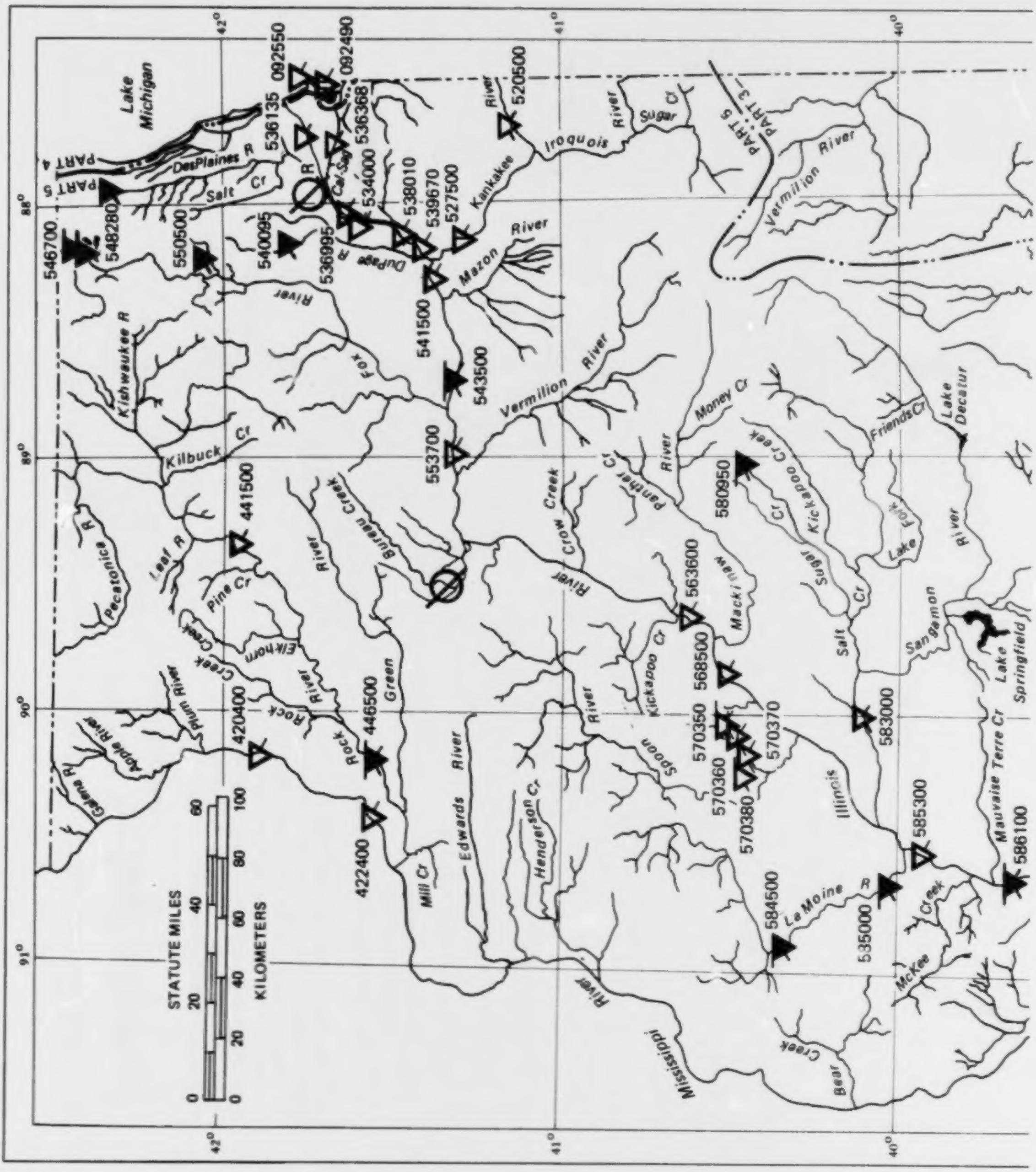


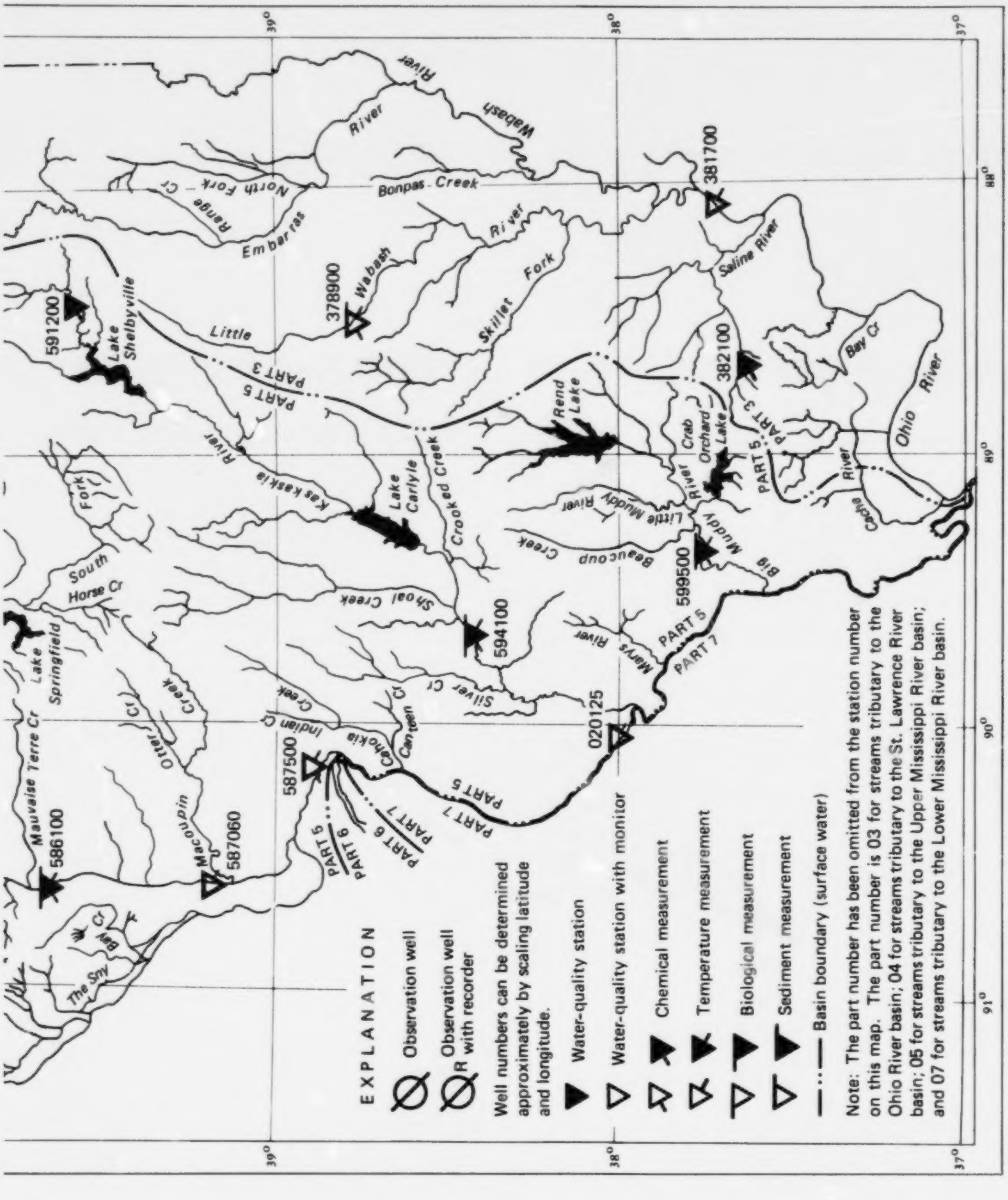
PART 4
PART 5
PART 3
Lake Michigan
Kishwaukee R
Pecatonica R
Leaf R
Elkhorn Cr
Rock River
Green River
Plum R
Apple River
Galena R
Mississippi River
Mill Cr
Edwards River
Henderson Cr
DuPage R
Fox River
Kankakee River
Iroquois R
Mazon River
Vermilion R
Illinois River
Bureau Creek
Crow Creek
Panther Cr
Mackinaw River
Sugar Creek
Kickapoo Cr
Salt Cr
Lake Fork
Friends Cr
Sangamon River
Lake Decatur
Lake Springfield
Lake Shelbyville
S Fork
Horse
Vermilion R
N Fork
Salt Fork
LaMoine R
Crooked Cr
McKee Cr
Bay Cr
Bear Creek
Mauvaise Terre Creek
42°
41°
40°
88°
89°
90°
91°
527800
528000
547000
547500
548000
548280
548500
549000
549500
550000
550500
551200
551700
535000
535070
534500
535500
529000
536000
532000
530000
532500
533000
536500
536340
536275
536255
536215
539000
092500
536290
536270
536265
536235
536210
528500
529500
530990
531500
540095
537500
537000
540500
539900
527500
520000
520500
526000
525000
525500
542000
554500
543500
552500
555300
556500
437500
438500
438250
439500
440000
435500
444000
420000
419000
414820
420500
446500
447500
448000
466000
467000
466500
469000
568800
561500
562000
568500
560500
561000
566500
567500
564400
580950
580000
578500
582000
583000
571000
590000
572000
572450
572500
579500
590800
591500
591200
590400
343400
337000
336900
339000
574500
576000
575830
575800
577500
569500
570350
570360
570370
570380
570000
584400
584500
585000
585500
512500
502040
474500
495500


EXPLANATION
▲ Continuous record station
▲ Continuous record, stage only
▲ Continuous record with a telephone or radio
—··— Basin boundary (surface water)
0 20 40 60 STATUTE MILES
0 20 40 60 80 100 KILOMETERS
91°
90°
89°
88°
39°
38°
37°
PART 3
PART 5
PART 6
PART 7
502040
512500
513000
Bay Cr
The Sny
Illinois River
587000
Macoupin Creek
Otter Cr
586800
Lake Springfield
575830
575800
Horse Cr
S Fork
574500
Lake Shelbyville
591500
591200
591950
592000
592100
592300
593600
593900
592500
592800
Kaskaskia River
Lake Carlyle
592990
593000
594000
Shoal Creek
587500
588000
587900
Indian Cr
Cahokia
594450
589500
010000
594090
Silver Cr
594100
593520
593575
Crooked Cr
594800
595200
594330
Kaskaskia
Marys River
020500
599000
Beaucoup Cr
Little Muddy R
Muddy River
595800
Rend Lake
595950
597000
599500
Big
Crab Orchard Lake
598000
597500
382170
382100
382510
Saline River
384450
384500
Bay Cr
612000
611500
Ohio River
Cache River
022000
344000
344500
Range Cr
Embarras
378635
Little Wabash R
345500
346000
342000
343000
River
378900
379500
380350
379600
380475
380500
380000
Skillet Fork
381000
381500
378000
Bonpas Cr
377500
Wabash River

Note: The part number has been omitted from the station number on this map. The part number is 03 for streams tributary to the Ohio River basin; 04 for streams tributary to the St. Lawrence River basin; 05 for streams tributary to the Upper Mississippi River basin; and 07 for streams tributary to the Lower Mississippi River basin.

Figure 3. Map of Illinois showing location of active surface water gaging stations


Lake Michigan
PART 4
PART 5
PART 3
PART 5
DesPlaines R
Salt Cr
Cal-Sag
Kankakee River
Iroquois River
Sugar Cr
Vermilion River
DuPage R
Mazon River
Fox River
Kishwaukee R
Kilbuck Cr
Pecatonica R
Leaf R
Pine Cr
Elkhorn Creek
Rock Creek
Rock River
Plum River
Apple River
Galena R
Green River
Bureau Creek
Vermilion River
Crow Creek
Panther Cr
River
Money Cr
Mackinaw
Kickapoo Creek
Sugar Cr
Friends Cr
Lake Fork
Lake Decatur
River
Sangamon
Lake Springfield
Salt Cr
Spoon River
Kickapoo Cr
Illinois
Edwards River
Henderson Cr
Mill Cr
Mississippi River
La Moine R
McKee Creek
Bear Creek
Mauvaise Terre Cr
092550
092490
536135
536368
534000
538010
539670
527500
520500
548280
546700
550500
540095
536995
541500
543500
553700
441500
563600
568500
580950
570350
570360
570370
570380
583000
420400
446500
422400
584500
535000
585300
586100
42°
41°
40°
88°
89°
90°
91°
STATUTE MILES
0 20 40 60
0 20 40 60 80 100
KILOMETERS


39°
38°
37°
91°
90°
89°
88°
EXPLANATION
Observation well
Observation well with recorder
R
Well numbers can be determined approximately by scaling latitude and longitude.
Water-quality station
Water-quality station with monitor
Chemical measurement
Temperature measurement
Biological measurement
Sediment measurement
Basin boundary (surface water)
The Sny
Bay Cr
586100
Mauvaise Terre Cr
Macoupin
587060
Otter Cr
Creek
Lake Springfield
Horse Cr
South Fork
PART 5
PART 6
PART 7
587500
Cahokia
Indian Cr
Creek
Canteen Cr
Silver Cr
020125
Shoal Creek
594100
Marys River
Kaskaskia River
Lake Carlyle
Crooked Creek
Beaucoup Creek
599500
Big Muddy
Little Muddy River
Rend Lake
Crab Orchard Lake
Cache River
Ohio River
Bay Cr
382100
PART 3
Lake Shelbyville
591200
Little Wabash
378900
Skillet Fork
River
Embarras
Range Cr
North Fork Cr
River
Bonpas Creek
Wabash River
381700
Saline River

Note: The part number has been omitted from the station number on this map. The part number is 03 for streams tributary to the Ohio River basin; 04 for streams tributary to the St. Lawrence River basin; 05 for streams tributary to the Upper Mississippi River basin; and 07 for streams tributary to the Lower Mississippi River basin.

Figure 4. Map of Illinois showing location of water-quality stations and observation wells

OHIO RIVER BASIN

WABASH RIVER BASIN

03336900 SALT FORK NEAR ST. JOSEPH, IL

LOCATION.--Lat 40°08'55", long 88°02'00", in NW¼SE¼ sec.35, T.20 N., R.10 E., Champaign County, Hydrologic Unit 05120109, on right bank at downstream side of township highway bridge, 0.2 mi (0.3 km) downstream from Spoon River and 2.5 mi (4.0 km) north of St. Joseph.

DRAINAGE AREA.--134 mi² (347 km²).

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 650.16 ft (198.169 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Diurnal fluctuation at low flow caused by Rantoul sewage-treatment plant. Several observations of water temperature were made during the year. Daily temperature data were collected during water years 1959-62.

AVERAGE DISCHARGE.--19 years, 105 ft³/s (2.974 m³/s), 10.64 in/yr (270 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,860 ft³/s (194 m³/s) May 16, 1968, gage height, 18.26 ft (5.566 m); maximum gage height, 18.99 ft (5.786 m) Feb. 10, 1959; minimum discharge, 1.7 ft³/s (0.048 m³/s) Sept. 22, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 6	1845	1070	30.3	9.63	2.935	Sept. 14	0100	1160	32.9	10.11	3.082
Aug. 7	1845	*1580	44.7	*12.06	3.676						

Minimum daily discharge, 3.0 ft³/s (0.085 m³/s) Feb. 1-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	8.4	6.0	5.4	3.0	34	115	31	42	16	12	130
2	7.6	8.6	6.0	5.4	3.0	42	297	71	42	14	12	111
3	7.7	8.1	6.0	5.0	3.0	27	183	52	40	14	11	96
4	7.6	7.8	6.0	4.8	3.0	63	150	46	39	14	12	89
5	9.2	8.0	6.0	4.5	3.0	46	127	355	39	13	21	86
6	45	8.1	6.0	4.2	3.0	35	100	686	40	13	767	77
7	14	7.6	7.8	4.0	3.0	34	89	626	34	13	1160	72
8	9.9	7.7	9.7	3.8	3.0	36	79	328	45	17	691	67
9	8.5	9.1	8.4	3.6	3.0	42	75	221	50	85	370	65
10	8.0	8.2	7.2	3.5	5.0	38	73	170	30	26	402	60
11	7.7	7.6	6.6	3.5	20	32	65	140	31	19	459	56
12	7.8	8.8	6.4	3.3	15	65	61	120	30	19	538	60
13	7.6	10	6.4	3.2	11	43	59	108	28	16	293	434
14	7.5	10	6.4	3.2	9.0	33	59	98	27	15	208	789
15	7.1	9.3	6.4	3.2	8.0	28	55	88	25	14	291	517
16	6.6	9.6	6.4	3.2	7.4	24	51	79	24	45	440	453
17	6.9	8.4	6.2	3.2	7.0	23	49	74	24	31	530	312
18	7.6	8.1	6.2	3.2	6.8	100	47	68	23	18	262	249
19	8.7	7.8	6.2	3.2	6.6	61	47	67	21	15	189	207
20	11	7.5	6.0	3.2	6.4	53	46	71	19	16	150	166
21	8.1	7.8	6.0	3.1	6.4	44	44	63	18	25	149	142
22	8.2	7.2	6.0	3.1	6.4	62	43	58	19	32	357	127
23	8.8	8.7	6.0	3.1	15	113	41	53	21	18	212	117
24	12	15	5.8	3.1	60	131	39	52	20	15	165	156
25	8.4	9.1	5.8	3.1	54	98	38	51	21	14	128	142
26	8.0	11	5.8	3.1	45	84	37	50	25	13	110	120
27	8.0	14	5.8	3.1	40	89	35	48	17	13	95	104
28	7.7	6.4	5.6	3.1	35	393	34	48	18	12	88	93
29	7.8	6.2	5.6	3.1	---	354	32	46	17	13	374	88
30	9.4	6.6	5.6	3.1	---	190	31	44	16	12	218	86
31	14	---	5.6	3.1	---	138	---	43	---	15	169	---
TOTAL	304.5	260.7	195.9	110.7	391.0	2560	2201	4055	845	615	8883	5268
MEAN	9.82	8.69	6.32	3.57	14.0	82.6	73.4	131	28.2	19.8	287	176
MAX	45	15	9.7	5.4	60	393	297	686	50	85	1160	788
MIN	6.6	6.2	5.6	3.1	3.0	23	31	31	16	12	11	56
CFSM	.07	.07	.05	.03	.10	.62	.55	.98	.21	.15	2.14	1.31
IN.	.08	.07	.05	.03	.11	.71	.61	1.13	.23	.17	2.47	1.46

CAL YR 1976 TOTAL 26261.4 MEAN 71.8 MAX 1450 MIN 5.6 CFSM .54 IN 7.29
WTR YR 1977 TOTAL 25689.8 MEAN 70.4 MAX 1160 MIN 3.0 CFSM .53 IN 7.13

03337000 BONEYARD CREEK AT URBANA, IL

LOCATION.--Lat 40°06'40", long 88°13'35", in NW¼NE¼ sec.18, T.19 N., R.9 E., Champaign County, Hydrologic Unit 05120109, on right bank at downstream side of footbridge at rear of fire station on University of Illinois campus in Urbana, 1.2 mi (1.9 km) above mouth.

DRAINAGE AREA.--4.46 mi² (11.55 km²).

PERIOD OF RECORD.--July 1948 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 708.10 ft (215.829 m) above mean sea level. Prior to Oct. 1, 1974, at datum 0.15 ft (0.046 m) higher.

REMARKS.--Records good except those for winter periods and those for period of no gage-height record, July 7-12, which are poor. Diurnal fluctuation at low flow caused by industrial plants upstream. Since Aug. 1, 1960, part of storm runoff from 1.12 mi² (2.90 km²) at headwaters has been diverted to Saline Branch through Northwest Diversion Conduit. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--29 years, 4.48 ft³/s (0.127 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 596 ft³/s (16.9 m³/s) Aug. 25, 1965, gage height, 8.06 ft (2.457 m); minimum, 0.2 ft³/s (0.006 m³/s) Oct. 11, 12, Nov. 12, 1957, Aug. 9-13, 1959, Aug. 17, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 280 ft³/s (7.9 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 28	0810	280	7.93	4.85	1.478	Aug. 15	0310	474	13.4	6.49	1.978
May 5	Unknown	376	10.6	5.70	1.737	Aug. 28	2110	340	9.63	5.39	1.643
July 8	Unknown	*570	16.1	Unknown	--	Sept. 13	1340	558	15.8	7.12	2.170
Aug. 5	2150	428	12.1	6.13	1.868	Sept. 24	0435	425	12.0	6.10	1.859
Aug. 11	1215	458	13.0	6.36	1.939						

Minimum daily discharge, 0.48 ft³/s (0.014 m³/s) Jan. 19 to Feb. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.7	1.6	1.2	.48	1.2	3.9	1.6	2.0	1.6	1.4	2.3
2	1.2	1.6	1.5	1.2	.48	2.4	16	1.5	2.0	1.6	1.3	2.2
3	1.1	1.7	1.6	1.1	.48	20	3.4	1.5	1.8	1.6	1.3	2.1
4	1.3	1.8	1.5	1.1	.48	6.8	5.1	1.5	1.7	1.6	17	2.1
5	26	1.9	1.5	1.3	.48	3.2	3.0	40	3.0	1.6	22	6.2
6	24	2.0	1.9	1.3	.48	2.8	4.4	30	2.0	1.6	42	2.1
7	1.6	1.8	1.6	1.2	.48	2.6	2.7	7.0	2.1	12	49	1.8
8	1.4	2.1	1.6	1.1	.48	2.5	2.4	4.5	3.1	100	7.3	2.0
9	1.3	2.1	1.9	.86	.60	2.4	2.4	3.5	1.8	10	2.4	1.9
10	1.2	2.1	2.3	.92	5.0	2.4	2.3	3.0	1.8	3.0	15	1.9
11	1.3	2.0	1.5	.78	2.5	7.6	2.3	3.0	3.1	1.2	37	2.0
12	1.4	2.2	1.5	.76	2.0	31	2.2	2.8	2.1	12	3.9	7.6
13	1.5	2.1	1.5	1.5	1.8	3.9	2.2	2.7	2.0	2.4	2.3	99
14	1.4	2.1	1.6	.80	3.4	2.8	2.2	2.7	2.0	20	1.8	5.7
15	1.5	2.2	1.6	.57	2.1	2.6	2.1	2.7	2.0	5.0	40	9.7
16	1.3	2.2	1.5	.52	1.6	2.3	2.1	2.4	2.0	1.8	5.0	2.7
17	1.3	2.2	1.6	.50	1.4	24	2.0	2.4	2.0	1.7	2.2	2.2
18	1.5	2.1	1.4	.49	1.3	13	2.1	2.4	2.2	2.2	1.8	2.1
19	3.6	2.0	1.4	.48	1.2	7.1	4.8	2.6	2.1	1.7	1.6	1.8
20	1.7	2.0	1.4	.48	1.1	3.7	2.3	2.3	2.0	1.5	1.5	1.7
21	1.5	1.7	1.4	.48	1.1	8.6	2.4	2.3	1.8	1.5	24	1.6
22	1.3	1.8	1.4	.48	1.1	24	2.2	2.2	5.3	2.1	2.1	1.6
23	6.1	1.8	1.4	.48	4.0	7.6	2.0	2.3	2.2	1.5	1.8	1.5
24	1.5	1.8	1.5	.48	2.0	5.1	1.9	2.7	7.1	1.4	1.4	25
25	1.3	1.8	1.6	.48	1.7	4.1	1.8	2.7	2.7	1.4	1.4	1.7
26	1.2	10	1.4	.48	1.5	3.4	1.7	2.1	1.6	1.4	1.4	1.5
27	1.3	5.4	1.5	.48	1.3	33	1.7	2.0	2.7	3.6	1.4	1.4
28	1.2	1.6	1.4	.48	1.2	57	1.7	2.0	6.2	2.1	27	1.4
29	1.3	1.6	1.4	.48	---	9.4	1.6	2.0	1.8	1.6	12	1.4
30	8.5	1.6	1.3	.48	---	5.5	1.6	2.0	1.7	1.4	2.8	7.6
31	2.0	---	1.7	.48	---	4.4	---	2.0	---	2.6	2.6	---
TOTAL	104.0	69.0	47.9	23.34	41.74	306.4	88.5	144.4	75.9	204.7	333.7	203.8
MEAN	3.35	2.30	1.55	.75	1.49	9.88	2.95	4.66	2.53	6.60	10.8	6.79
MAX	26	10	2.3	1.5	5.0	57	16	40	7.1	100	49	99
MIN	1.1	1.6	1.3	.48	.48	1.2	1.6	1.5	1.6	1.2	1.3	1.4

CAL YR 1976 TOTAL 1379.00 MEAN 3.77 MAX 50 MIN 1.1
WTR YR 1977 TOTAL 1643.38 MEAN 4.50 MAX 100 MIN .48

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03339000 VERMILION RIVER NEAR DANVILLE, IL

LOCATION.--Lat 40°05'53", long 87°35'37", in SE¼NW¼ sec.22, T.19 N., R.11 W., Vermilion County, Hydrologic Unit 05120109, on left bank 1.5 mi (2.4 km) upstream from Stony Creek and 2.5 mi (4.0 km) southeast of Danville.

DRAINAGE AREA.--1,290 mi² (3,341 km²).

PERIOD OF RECORD.--October 1914 to September 1921, June 1928 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 853: 1936(M). WSP 973: 1939. WSP 1305: 1915-16, 1920, 1929. WSP 1335: 1934(m). WSP 1909: 1960. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 503.33 ft (153.415 m) above mean sea level (levels by Corps of Engineers). Prior to Jan. 9, 1935, nonrecording gage at site 0.3 mi (0.5 km) upstream at same datum.

REMARKS.--Records good except those for winter periods, which are poor. Flow regulated at times by storage at Lake Vermilion on North Fork Vermilion River, 4.5 mi (7.2 km) above station, usable capacity, 7,440 acre-ft (9.17 hm³), and by Danville sewage-disposal plant. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--56 years, 923 ft³/s (26.14 m³/s), 9.72 in/yr (247 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,700 ft³/s (1,380 m³/s) Mar. 13, 1939, gage height, 28.59 ft (8.714 m); minimum daily, 2 ft³/s (0.057 m³/s) Oct. 9-14, 1920, Aug. 10, 1930.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft³/s (170 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Aug. 11	2330	7640	216	12.37	3.770	Sept. 14	1030	*9370	265	*14.10	4.298

Minimum daily discharge, 27 ft³/s (0.76 m³/s) Jan. 16 to Feb. 2, Feb. 7, 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	64	56	32	27	197	1190	229	223	101	63	713
2	59	93	47	31	27	161	1270	263	187	104	57	807
3	58	74	48	30	45	194	2210	465	175	92	57	858
4	52	61	54	29	42	295	1650	688	175	75	63	548
5	55	60	50	28	35	507	1290	1180	121	64	74	461
6	102	64	51	28	28	389	1130	4050	142	59	405	393
7	198	64	51	28	27	275	919	5130	134	55	3940	401
8	175	60	47	28	27	227	665	4770	200	191	6530	354
9	104	62	46	28	27	210	579	2980	213	183	6120	319
10	80	61	46	28	30	215	515	1920	206	268	5000	294
11	72	55	49	28	35	227	495	1460	192	184	6110	271
12	65	56	52	28	120	302	458	1110	166	134	7020	256
13	59	57	45	28	200	441	431	837	155	95	5060	1050
14	55	50	48	28	150	491	418	723	151	86	2190	8690
15	59	47	47	28	120	336	435	703	138	80	2150	7620
16	57	51	46	27	100	245	411	767	139	76	2500	6770
17	54	56	50	27	84	206	380	781	125	77	4740	4890
18	52	57	53	27	74	816	360	550	121	195	2400	3100
19	57	60	56	27	66	1370	353	477	114	184	1230	2990
20	57	56	59	27	60	924	349	477	105	132	1250	2790
21	56	56	45	27	56	593	344	477	98	133	1150	2110
22	61	53	55	27	56	578	343	457	98	153	833	1450
23	76	52	53	27	100	820	327	374	100	143	1100	1300
24	75	52	48	27	200	1130	310	307	107	148	1020	1290
25	65	57	49	27	424	1110	289	331	112	130	909	1520
26	77	63	50	27	402	1000	276	340	135	101	584	1550
27	72	78	47	27	271	863	264	299	144	231	406	1160
28	62	67	49	27	240	1860	254	269	109	156	343	903
29	59	67	44	27	---	3990	245	233	107	99	801	801
30	72	64	41	27	---	3370	231	226	113	83	1690	824
31	70	---	39	27	---	1800	---	226	---	75	1240	---
TOTAL	2272	1817	1521	862	3073	25142	18391	33099	4305	3887	67035	56483
MEAN	73.3	60.6	49.1	27.8	110	811	613	1068	144	125	2162	1883
MAX	198	93	59	32	424	3990	2210	5130	223	268	7020	8690
MIN	52	47	39	27	27	161	231	226	98	55	57	256
CFSM	.06	.05	.04	.02	.09	.63	.48	.83	.11	.10	1.68	1.46
IN.	.07	.05	.04	.02	.09	.73	.53	.95	.12	.11	1.93	1.63

CAL YR 1976 TOTAL 244372 MEAN 668 MAX 11000 MIN 39 CFSM .52 IN 7.05
WTR YR 1977 TOTAL 217887 MEAN 597 MAX 8690 MIN 27 CFSM .46 IN 6.28

03343400 EMBARRAS RIVER NEAR CAMARGO, IL

LOCATION.--Lat 39°47'30", long 88°11'10", in NE¼NW¼ sec.3, T.15 N., R.9 E., Douglas County, Hydrologic Unit 05120112, on left bank at downstream side of bridge on U.S. Highway 36, 2.0 mi (3.2 km) southwest of Camargo.

DRAINAGE AREA.--186 mi² (482 km²).

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 622.30 ft (189.677 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--17 years, 149 ft³/s (4.220 m³/s), 10.88 in/yr (276 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,230 ft³/s (176 m³/s) June 23, 1974, gage height, 16.72 ft (5.096 m); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,160 ft³/s (61.2 m³/s) May 7, gage height, 12.49 ft (3.807 m); minimum daily, 0.50 ft³/s (0.014 m³/s) Feb. 7-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	4.5	2.8	.81	.53	22	409	42	45	36	2.9	22
2	1.1	4.7	2.5	.69	.53	22	329	48	43	33	2.3	19
3	.81	3.8	2.4	.68	.52	31	321	58	40	19	2.2	20
4	.61	3.4	2.3	.68	.52	145	277	51	36	15	2.0	17
5	.60	3.2	2.3	.68	.51	197	242	358	35	13	6.5	14
6	2.8	3.2	2.6	.68	.51	119	183	1100	36	10	14	12
7	14	3.2	2.8	.68	.50	80	144	1960	34	8.8	78	11
8	8.6	3.0	2.5	.67	.50	59	129	1240	33	8.1	225	9.1
9	4.5	3.0	2.4	.67	.50	49	114	756	34	18	147	8.0
10	3.5	3.0	2.3	.67	.90	42	113	537	29	29	79	7.3
11	2.6	2.9	2.3	.66	10	35	104	436	27	13	146	6.4
12	2.7	3.0	2.2	.66	13	65	91	319	28	10	134	5.8
13	2.3	2.9	2.3	.66	7.0	149	89	242	27	12	114	13
14	2.2	2.9	2.3	.65	4.5	109	88	201	25	8.5	56	172
15	2.0	2.8	2.2	.65	4.0	75	82	173	23	6.1	34	294
16	2.2	2.9	2.3	.64	3.7	56	77	149	22	5.2	28	338
17	2.1	3.0	2.4	.64	3.5	44	73	132	25	43	26	249
18	2.0	3.0	2.3	.63	3.4	185	70	122	25	22	160	133
19	2.2	3.0	2.5	.62	3.3	367	68	110	22	11	180	95
20	2.5	3.1	2.6	.61	3.2	341	67	102	19	7.3	152	100
21	2.9	3.2	2.4	.60	3.2	223	62	97	17	6.3	140	76
22	3.3	3.0	1.9	.59	3.2	229	60	90	18	5.4	300	57
23	3.7	2.8	1.7	.59	15	361	59	80	20	6.7	210	48
24	4.8	3.0	1.4	.58	109	459	57	74	20	4.1	145	61
25	5.6	2.8	1.4	.58	93	390	54	73	18	3.2	75	164
26	5.7	3.4	1.4	.57	41	268	52	70	29	2.6	11	142
27	4.7	3.9	1.5	.56	25	211	51	64	22	2.3	11	88
28	4.2	4.5	1.5	.56	23	403	49	61	36	1.9	9.7	63
29	3.9	4.2	1.5	.55	---	760	46	58	37	1.8	23	50
30	4.2	3.3	1.3	.54	---	798	41	52	25	2.0	60	44
31	4.2	---	.99	.54	---	588	---	48	---	2.4	34	---
TOTAL	108.02	98.6	65.29	19.59	373.52	6882	3601	8903	850	366.7	2607.6	2338.6
MEAN	3.48	3.29	2.11	.63	13.3	222	120	287	28.3	11.8	84.1	78.0
MAX	14	4.7	2.8	.81	109	798	409	1960	45	43	300	338
MIN	.60	2.8	.99	.54	.50	22	41	42	17	1.8	2.0	5.8
CFSM	.02	.02	.01	.003	.07	1.19	.65	1.54	.15	.06	.45	.42
IN.	.02	.02	.01	.00	.07	1.38	.72	1.78	.17	.07	.52	.47

CAL YR 1976 TOTAL 31782.84 MEAN 86.8 MAX 3100 MIN .36 CFSM .47 IN 6.36
WTR YR 1977 TOTAL 26213.92 MEAN 71.8 MAX 1960 MIN .50 CFSM .39 IN 5.24

03344000 EMBARRAS RIVER NEAR DIONA, IL

LOCATION.--Lat 39°20'40", long 88°10'15", in NW¼ sec.2, T.10 N., R.9 E., Cumberland County, Hydrologic Unit 05120112, on downstream side of Ryans Bridge, 2.8 mi (4.5 km) southwest of Diona, 7 mi (11 km) downstream from Indian Creek, and 9 mi (14 km) upstream from Hurricane Creek.

DRAINAGE AREA.--919 mi² (2,380 km²).

PERIOD OF RECORD.--December 1938 to June 1940, July 1944 to September 1947, October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 534.00 ft (162.763 m) above mean sea level (levels by Corps of Engineers). Dec. 16, 1938, to June 30, 1940, water-stage recorder at present site at datum 32.48 ft (9.900 m) higher. July 6, 1944, to Sept. 30, 1947, and Oct. 1, 1970, to Oct. 12, 1973, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year. Chemical data were collected during water years 1971-76. Daily conductance data were collected from December 1970 to water year 1976. Daily temperature data were collected from April 1971 to water year 1976.

AVERAGE DISCHARGE.--10 years (water years 1945-47, 1971-77), 811 ft³/s (22.97 m³/s), 11.98 in/yr (304 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,200 ft³/s (515 m³/s) July 22, 1973, gage height, 22.30 ft (6.797 m); minimum observed, 2.6 ft³/s (0.074 m³/s) Sept. 17, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s (71 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 28	2315	3940	112	11.77	3.588	May 9	1545	*7150	202	*16.66	5.078

Minimum daily discharge, 6.0 ft³/s (0.17 m³/s) Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	28	13	8.4	6.3	200	2310	172	176	589	16	84
2	7.6	18	12	8.0	6.3	207	2130	168	161	633	17	86
3	7.6	16	11	7.9	6.3	209	1710	153	150	452	15	64
4	7.6	15	11	7.9	6.3	510	1380	160	141	325	14	48
5	9.1	14	11	7.8	6.2	444	1210	223	139	199	13	41
6	16	13	14	7.7	6.2	522	1050	1520	167	146	13	40
7	33	12	17	7.6	6.1	472	847	4270	134	112	14	34
8	15	12	15	7.5	6.1	360	700	5510	132	92	36	30
9	12	12	13	7.4	6.0	280	596	6970	149	79	71	26
10	10	10	12	7.4	10	237	540	6270	135	74	233	24
11	9.1	11	12	7.3	30	209	498	4560	127	105	241	21
12	9.1	10	12	7.3	80	592	466	2710	125	120	195	21
13	11	9.9	12	7.2	90	647	432	1730	122	86	230	34
14	12	9.8	12	7.2	60	577	394	1200	141	64	195	72
15	12	9.4	12	7.1	35	516	384	923	122	53	172	53
16	9.8	9.5	12	7.0	27	394	363	763	95	55	117	148
17	9.5	9.6	13	7.0	24	301	340	637	80	82	234	258
18	9.0	10	12	6.9	22	296	318	550	58	55	120	272
19	9.0	11	13	6.9	21	291	306	488	49	41	75	197
20	9.3	10	14	6.9	20	574	298	435	44	56	61	212
21	11	11	13	6.8	20	660	282	397	40	50	68	167
22	11	10	12	6.8	20	670	286	369	38	44	164	152
23	11	10	11	6.7	20	657	268	332	40	39	82	143
24	44	9.8	10	6.7	350	833	259	303	46	33	56	186
25	60	11	10	6.6	450	933	239	282	79	26	43	179
26	29	13	10	6.5	350	903	230	296	85	23	44	152
27	20	16	11	6.4	270	851	211	291	75	21	39	218
28	17	24	11	6.4	230	2500	201	258	189	20	34	226
29	15	21	10	6.4	---	3060	189	237	246	18	116	179
30	17	16	9.6	6.4	---	2540	177	214	335	17	120	176
31	31	---	9.0	6.4	---	2480	---	199	---	17	73	---
TOTAL	492.9	392.0	369.6	220.5	2184.8	23925	18614	42590	3620	3726	2921	3543
MEAN	15.9	13.1	11.9	7.11	78.0	772	620	1374	121	120	94.2	118
MAX	60	28	17	8.4	450	3060	2310	6970	335	633	241	272
MIN	7.6	9.4	9.0	6.4	6.0	200	177	153	38	17	13	21
CFSM	.02	.01	.01	.008	.09	.84	.68	1.50	.13	.13	.10	.13
IN.	.02	.02	.01	.01	.09	.97	.75	1.72	.15	.15	.12	.14

CAL YR 1976 TOTAL 144902.9 MEAN 396 MAX 5030 MIN 7.6 CFSM .43 IN 5.87
WTR YR 1977 TOTAL 102598.8 MEAN 281 MAX 6970 MIN 6.0 CFSM .31 IN 4.15

03344500 RANGE CREEK NEAR CASEY, IL

LOCATION.--Lat 39°19'36", long 88°01'46", in NE¼SE¼ sec.12, T.10 N., R.10 E., Cumberland County, Hydrologic Unit 05120112, on right bank at downstream side of highway bridge, 2.5 mi (4.0 km) west of State Highway 49 and 3 mi (5 km) northwest of Casey.

DRAINAGE AREA.--7.61 mi² (19.71 km²).

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 1435: 1951-53, 1955(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 597.28 ft (182.051 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--27 years, 5.34 ft³/s (0.151 m³/s), 9.53 in/yr (242 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,500 ft³/s (99.1 m³/s) Aug. 11, 1961, gage height, 12.50 ft (3.810 m), from rating curve extended above 900 ft³/s (25.5 m³/s); no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 262 ft³/s (7.42 m³/s) Mar. 28, gage height, 5.50 ft (1.676 m), no peak above base of 380 ft³/s (11 m³/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.25	.04	.00	.06	.00	.00
2	.00	.00	.00	.00	.00	.00	7.6	.06	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	1.0	.04	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.50	.05	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.38	.13	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.30	16	.00	.00	.00	.00
7	.00	.00	.01	.00	.00	.00	.26	1.3	.00	.00	.00	.00
8	.00	.00	.02	.00	.00	.02	.22	.19	.00	.00	.00	.00
9	.00	.00	.01	.00	.00	.05	.19	.08	.00	.00	.00	.00
10	.00	.00	.02	.00	.01	.06	.19	.05	.00	.00	.00	.00
11	.00	.00	.05	.00	.02	.10	.18	.03	.00	.00	.00	.00
12	.00	.00	.06	.00	.06	11	.17	.02	.00	.00	.00	.15
13	.00	.00	.05	.00	.15	.58	.19	.01	.00	.00	.00	.92
14	.00	.00	.02	.00	.25	.18	.18	.00	.00	.00	.00	.19
15	.00	.00	.03	.00	.80	.12	.17	.00	.00	.00	.00	.32
16	.00	.00	.08	.00	.50	.08	.17	.00	.00	.00	.13	.09
17	.00	.00	.10	.00	.25	.10	.15	.00	.00	.00	.04	.00
18	.00	.00	.08	.00	.09	.18	.15	.00	.00	.00	.00	.00
19	.00	.00	.06	.00	.03	.12	.21	.00	.00	.00	.00	.00
20	.00	.00	.04	.00	.02	.18	.23	.00	.00	.00	.00	.00
21	.00	.00	.05	.00	.01	.12	.19	.00	.00	.00	1.5	.00
22	.00	.00	.01	.00	.20	.24	.22	.00	.00	.00	.02	.00
23	.00	.00	.03	.00	1.2	.27	.22	.00	.00	.00	.00	.00
24	.00	.00	.01	.00	.24	.18	.14	.00	.00	.00	.00	11
25	.00	.00	.02	.00	.00	.15	.07	.00	.00	.02	.00	.31
26	.00	.00	.04	.00	1.4	.10	.04	.00	.00	.00	.00	.03
27	.00	.00	.04	.00	.15	7.1	.02	.00	.00	.00	.00	.00
28	.00	.00	.10	.00	.00	86	.01	.00	.01	.00	.01	.00
29	.00	.00	.08	.00	---	4.1	.03	.00	.00	.00	2.9	.00
30	.00	.00	.02	.00	---	.70	.03	.00	.78	.00	.02	5.1
31	.00	---	.00	.00	---	.33	---	.00	---	.00	.00	---
TOTAL	.00	.00	1.03	.00	5.38	112.06	13.66	18.00	.79	.08	4.62	18.11
MEAN	.000	.000	.033	.000	.19	3.61	.46	.58	.026	.003	.15	.60
MAX	.00	.00	.10	.00	1.4	86	7.6	16	.78	.06	2.9	11
MIN	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00
CFSM	.000	.000	.004	.000	.03	.47	.06	.08	.003	.000	.02	.08
IN.	.00	.00	.01	.00	.03	.55	.07	.09	.00	.00	.02	.09

CAL YR 1976 TOTAL 1527.66 MEAN 4.17 MAX 424 MIN .00 CFSM .55 IN 7.47
WTR YR 1977 TOTAL 173.73 MEAN .48 MAX 86 MIN .00 CFSM .06 IN .85

03345500 EMBARRAS RIVER AT STE. MARIE, IL

LOCATION.--Lat 38°56'10", long 88°01'10", in NW¼NW¼ sec.30, T.6 N., R.14 W., Jasper County, Hydrologic Unit 05120112, on right bank at upstream side of highway bridge at Ste. Marie.

DRAINAGE AREA.--1,516 mi² (3,926 km²).

PERIOD OF RECORD.--October 1909 to December 1912, August 1914 to current year.

REVISED RECORDS.--WSP 1083: 1934. WSP 1113: 1910-31, 1933, 1939-40, 1945(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 445.75 ft (135.865 m) above mean sea level (levels by Corps of Engineers). Prior to June 29, 1940, nonrecording gage and June 29, 1940, to Jan. 24, 1967, water-stage recorder at same site at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--66 years, 1,199 ft³/s (33.96 m³/s), 10.74 in/yr (273 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,800 ft³/s (1,270 m³/s) Jan. 4, 1950, gage height, 25.95 ft (7.910 m), present datum, from rating curve extended above 29,000 ft³/s (821 m³/s); maximum gage height, 26.54 ft (8.089 m), present datum, June 30, 1957; minimum discharge, 1 ft³/s (0.028 m³/s) Oct. 5-9, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,460 ft³/s (211 m³/s) Mar. 29, gage height, 17.95 ft (5.471 m); minimum daily, 9.0 ft³/s (0.25 m³/s) Jan. 23-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	40	26	22	15	587	2840	253	352	565	59	170
2	33	40	25	20	13	477	2710	249	319	578	58	140
3	33	42	23	20	12	431	3230	241	306	613	56	117
4	33	43	22	20	12	786	2300	226	284	520	53	117
5	32	39	21	20	12	1070	1760	222	255	391	52	108
6	32	36	20	20	10	717	1490	226	243	309	51	98
7	32	34	20	18	10	638	1290	1340	234	236	50	88
8	32	32	25	18	10	612	1130	3210	239	194	50	82
9	35	29	33	16	10	527	951	3750	234	165	50	75
10	41	29	28	15	10	436	767	4310	226	158	51	75
11	34	28	26	14	20	382	688	4900	230	160	69	70
12	31	28	25	13	100	877	674	5270	218	158	200	70
13	31	28	25	12	411	2440	685	3940	213	168	300	88
14	31	27	25	12	1440	1200	655	2080	216	165	250	82
15	31	27	23	12	1180	822	610	1510	200	153	220	79
16	31	27	23	12	874	721	592	1220	198	112	190	95
17	31	27	23	10	686	621	573	1040	186	101	150	98
18	30	26	23	10	570	517	544	904	175	106	120	153
19	30	25	20	10	450	471	503	802	165	127	202	273
20	30	25	20	10	350	449	472	723	158	106	160	311
21	30	25	20	10	300	552	453	663	156	95	117	313
22	30	25	20	10	250	704	475	608	158	92	129	236
23	31	24	20	9.0	250	738	632	570	160	94	391	196
24	67	23	18	9.0	300	740	1350	539	131	90	245	370
25	53	23	18	9.0	750	814	734	503	126	98	163	851
26	65	23	18	9.0	611	922	443	470	132	80	118	513
27	63	24	18	9.0	1360	1190	352	441	150	75	101	290
28	55	23	18	10	1020	5140	326	438	315	70	92	229
29	46	30	18	10	---	7280	294	417	257	89	117	256
30	43	31	20	12	---	6990	273	393	300	65	267	253
31	44	---	25	15	---	4560	---	372	---	63	236	---
TOTAL	1153	883	689	416.0	11036	44411	29796	41830	6536	5996	4367	5896
MEAN	37.2	29.4	22.2	13.4	394	1433	993	1349	218	193	141	197
MAX	65	43	33	22	1440	7280	3230	5270	352	613	391	851
MIN	30	23	18	9.0	10	382	273	222	126	63	50	70
CFSM	.03	.02	.02	.009	.26	.95	.66	.89	.14	.13	.09	.13
IN.	.03	.02	.02	.01	.27	1.09	.73	1.03	.16	.15	.11	.14

CAL YR 1976 TOTAL 250391.0 MEAN 684 MAX 11500 MIN 18 CFSM .45 IN 6.14
WTR YR 1977 TOTAL 153009.0 MEAN 419 MAX 7280 MIN 9.0 CFSM .28 IN 3.75

03346000 NORTH FORK EMBARRAS RIVER NEAR OBLONG, IL

LOCATION.--Lat 39°00'01", long 87°56'42", in NE¼SW¼ sec.35, T.7 N., R.14 W., Crawford County, Hydrologic Unit 05120112, at upstream side of pier of bridge on county highway, 200 ft (61 m) downstream from Illinois Central Gulf Railroad bridge, 2 mi (3 km) west of Oblong, and 7.8 mi (12.6 km) upstream from mouth.

DRAINAGE AREA.--319 mi^2 (826 km^2).

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WDR IL-74: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 456.19 ft (139.047 m) above mean sea level. Prior to Dec. 11, 1940, nonrecording gage and Dec. 11, 1940, to Sept. 30, 1964, water-stage recorder at site 0.8 mi (1.3 km) upstream at datum 2.00 ft (0.610 m) higher. Oct. 1, 1964, to Oct. 8, 1971, water-stage recorder at site 0.8 mi (1.3 km) upstream at present datum.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--37 years, 249 ft^3/s (7.052 m^3/s), 10.60 in/yr (269 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,100 ft^3/s (767 m^3/s) Jan. 4, 1950, gage height, 24.38 ft (7.431 m), present datum, from rating curve extended above 16,000 ft^3/s (453 m^3/s); no flow for many days in 1953-54, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,360 ft^3/s (123 m^3/s) Mar. 29, gage height, 16.45 ft (5.014 m); minimum daily, 0.50 ft^3/s (0.014 m^3/s) Oct. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.9	1.7	.80	.60	91	155	20	7.1	458	1.9	11
2	1.3	2.2	1.7	.80	.60	58	158	21	7.1	157	1.3	6.1
3	1.3	3.6	1.7	.80	.60	48	351	20	7.0	33	1.1	3.9
4	1.2	2.4	1.7	.80	.60	105	204	19	6.6	15	.90	2.9
5	1.3	2.0	1.6	.80	.60	172	132	18	6.5	10	.80	2.0
6	1.7	1.8	1.6	.80	.60	91	108	19	6.4	7.9	.70	6.7
7	1.4	1.6	1.7	.80	.60	52	87	317	6.4	6.6	1.3	6.6
8	1.1	1.5	1.7	.80	.60	36	74	232	6.7	5.9	4.9	3.3
9	.90	1.4	1.6	.80	.60	29	63	90	8.6	5.3	8.4	1.7
10	1.5	1.5	1.4	.80	.60	25	54	53	7.8	5.0	6.2	1.1
11	2.3	1.4	1.4	1.0	1.0	22	49	37	7.2	5.0	5.2	.70
12	2.0	1.3	1.2	1.0	5.0	108	44	29	7.4	5.0	5.3	.70
13	1.8	1.3	1.2	1.0	125	520	39	24	7.1	4.6	3.4	1.6
14	1.4	1.2	1.0	1.0	499	166	35	21	9.0	4.1	7.4	2.1
15	1.2	1.2	1.0	1.0	189	80	32	19	6.9	4.0	5.9	5.2
16	.90	1.2	1.0	1.0	115	53	30	17	6.3	3.8	3.9	6.8
17	.60	1.2	1.0	1.0	76	40	28	15	6.3	3.5	2.3	8.0
18	.50	1.2	1.0	1.0	48	36	26	14	5.8	3.3	1.2	7.1
19	.50	1.4	1.0	1.0	37	35	24	13	5.4	3.9	1.6	126
20	.70	1.5	1.0	1.0	35	36	23	12	5.1	4.8	4.2	253
21	.70	1.5	.80	1.0	36	31	23	11	4.8	3.2	4.4	29
22	.60	1.3	.80	1.0	40	29	29	11	6.2	4.4	34	11
23	1.0	1.3	.80	1.0	56	28	89	10	6.1	4.0	60	6.4
24	2.9	1.4	.80	1.1	175	29	98	9.4	6.9	3.1	20	29
25	2.6	1.5	.80	1.2	211	29	53	9.0	7.2	3.0	16	30
26	4.7	1.7	.60	1.0	146	25	34	8.7	12	2.7	8.1	46
27	4.3	1.6	.60	1.0	514	95	27	8.0	9.5	2.2	4.8	16
28	2.9	1.7	.60	.80	300	1970	24	7.8	146	1.8	2.7	8.2
29	2.3	1.8	.60	.80	---	4040	22	7.7	142	1.5	7.7	5.7
30	2.4	1.8	.60	.80	---	2520	20	7.5	54	1.8	43	4.5
31	2.3	---	.60	.80	---	388	---	7.0	---	1.9	31	---
TOTAL	51.80	48.4	34.80	28.50	2614.00	10985	2135	1107.1	531.4	775.3	299.60	642.30
MEAN	1.67	1.61	1.12	.92	93.4	354	71.2	35.7	17.7	25.0	9.66	21.4
MAX	4.7	3.6	1.7	1.2	514	4040	351	317	146	458	60	253
MIN	.50	1.2	.60	.80	.60	22	20	7.0	4.8	1.5	.70	.70
CFSM	.005	.005	.004	.003	.29	1.11	.22	.11	.06	.08	.03	.07
IN.	.01	.01	.00	.00	.30	1.28	.25	.13	.06	.09	.03	.07

CAL YR 1976 TOTAL 51987.50 MEAN 142 MAX 5640 MIN .50 CFSM .45 IN 6.06
WTR YR 1977 TOTAL 19253.20 MEAN 52.7 MAX 4040 MIN .50 CFSM .17 IN 2.25

03378000 BONPAS CREEK AT BROWNS, IL

LOCATION.--Lat 38°23'11", long 87°58'32", in NW¼SE¼ sec.33, T.1 S., R.14 W., Wabash County, Hydrologic Unit 05120114, near center of span on downstream side of bridge on State Highway 15, 0.5 mi (0.8 km) north of Browns and 0.7 mi (1.1 km) upstream from Southern Railway bridge.

DRAINAGE AREA.--228 mi² (591 km²).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 372.92 ft (113.666 m) above mean sea level. Prior to Dec. 11, 1968, water-stage recorder and concrete dam at site 0.4 mi (0.6 km) downstream at datum 2.0 ft (0.61 m) higher. Dec. 11, 1968, to Aug. 13, 1969, nonrecording gage at site 0.5 mi (0.8 km) downstream at datum 1.0 ft (0.30 m) lower. Auxiliary nonrecording gage near mouth on Wabash River at Grayville read twice daily.

REMARKS.--Records fair except those for period of no gage-height record, Jan. 3 to Feb. 10, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--37 years, 217 ft³/s (6.145 m³/s), 12.92 in/yr (328 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,500 ft³/s (212 m³/s) May 9, 1961, gage height, 24.04 ft (7.327 m), site and datum then in use; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,350 ft³/s (94.9 m³/s) Mar. 29, gage height, 19.87 ft (6.056 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	9.9	4.7	.20	.00	331	2360	46	3.3	418	3.3	414
2	2.6	6.4	3.9	.18	.00	108	2010	25	3.2	94	2.4	71
3	2.5	3.3	3.3	.10	.00	283	1650	23	2.6	27	1.8	24
4	2.3	2.3	2.9	.10	.00	1120	1220	71	2.1	14	1.4	16
5	2.2	1.6	2.4	.10	.00	1020	640	81	1.8	8.7	1.1	15
6	3.3	1.1	2.1	.10	.00	851	241	99	1.3	6.2	.75	17
7	4.3	1.2	2.0	.10	.00	347	150	725	.94	4.5	.62	17
8	3.0	2.6	1.4	.00	.00	108	91	470	2.0	3.1	.50	13
9	2.5	2.8	1.0	.00	.00	54	50	132	2.9	11	.54	7.7
10	2.2	2.8	1.1	.00	.10	38	42	50	2.5	31	.46	5.8
11	1.8	2.6	1.4	.00	8.2	30	36	28	2.5	663	.79	4.3
12	1.5	2.3	1.1	.00	117	517	31	20	2.1	1330	186	3.5
13	1.2	1.8	.89	.00	574	778	28	16	1.9	1550	437	3.3
14	1.0	1.5	.73	.00	636	559	26	14	1.8	1520	602	3.6
15	1.0	1.2	.79	.00	417	170	24	12	1.6	1240	729	4.8
16	.80	.95	.84	.00	100	61	21	10	2.1	579	1160	6.3
17	.80	.89	.80	.00	60	40	20	8.8	3.8	91	1410	5.9
18	.60	.77	.79	.00	35	211	19	7.7	2.8	23	1190	5.0
19	.60	.74	.81	.00	30	255	18	6.8	1.9	13	543	5.3
20	.40	.63	.82	.00	28	160	19	6.2	1.4	11	55	4.7
21	.40	.62	.52	.00	26	141	19	6.1	.85	11	17	3.5
22	2.5	.55	.42	.00	25	86	19	6.8	3.1	8.2	14	2.6
23	17	.51	.38	.00	108	55	40	22	2.4	6.4	37	2.2
24	32	.49	.30	.00	443	39	62	15	3.3	5.0	569	263
25	11	.43	.32	.00	249	30	42	9.2	12	141	957	564
26	6.3	8.2	.34	.00	111	25	30	6.9	15	263	1470	289
27	3.8	9.4	.35	.00	613	458	23	4.8	122	42	1570	152
28	2.6	8.7	.40	.00	618	2850	22	3.5	686	13	1250	77
29	1.8	7.2	.36	.00	---	3190	163	3.0	872	8.4	666	28
30	6.3	5.6	.29	.00	---	3230	167	2.8	795	6.0	586	18
31	7.9	---	.23	.00	---	2850	---	3.8	---	4.5	617	---
TOTAL	129.00	89.08	37.68	.88	4198.30	19995	9283	1935.4	2556.19	8146.0	14078.66	2046.5
MEAN	4.16	2.97	1.22	.028	150	645	309	62.4	85.2	263	454	68.2
MAX	32	9.9	4.7	.20	636	3230	2360	725	872	1550	1570	564
MIN	.40	.43	.23	.00	.00	25	18	2.8	.85	3.1	.46	2.2
CFSM	.02	.01	.005	.000	.66	2.83	1.36	.27	.37	1.15	1.99	.30
IN.	.02	.01	.01	.00	.68	3.26	1.51	.32	.42	1.33	2.30	.33

CAL YR 1976 TOTAL 28296.59 MEAN 77.3 MAX 1410 MIN .02 CFSM .34 IN 4.62
WTR YR 1977 TOTAL 62495.69 MEAN 171 MAX 3230 MIN .00 CFSM .75 IN 10.20

03378635 LITTLE WABASH RIVER NEAR EFFINGHAM, IL

LOCATION.--Lat 39°06'13", long 88°35'33", in NW¼NW¼ sec.36, T.8 N., R.5 E., Effingham County, Hydrologic Unit 05120114, on left bank at upstream side of dam, 400 ft (122 m) upstream from Penn Central bridge, 0.1 mi (0.2 km) downstream from bridge on U.S. Highway 40, and 2.2 mi (3.5 km) southwest of Effingham.

DRAINAGE AREA.--240 mi^2 (622 km^2).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 501.10 ft (152.735 m) above mean sea level.

REMARKS.--Records fair. Pumpage diverted at station for municipal supply of Effingham not included in records. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--11 years, 181 ft^3/s (5.126 m^3/s), 10.24 in/yr (260 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,300 ft^3/s (292 m^3/s) Apr. 20, 1970, gage height, 19.95 ft (6.081 m); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,910 ft^3/s (111 m^3/s) Mar. 28, gage height, 15.98 ft (4.871 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	7.4	.00	.00	.00	84	160	30	3.2	461	12	.78
2	.00	5.7	.00	.00	.00	53	375	32	4.6	86	3.7	.16
3	.00	2.2	.00	.00	.00	140	256	22	5.7	27	.38	.43
4	.00	.00	.00	.00	.00	630	161	17	5.7	14	.00	2.5
5	.08	.00	.00	.00	.00	142	125	40	5.7	12	.00	5.7
6	30	.00	.00	.00	.00	74	98	509	4.6	8.1	.00	2.1
7	1.1	.00	.00	.00	2.1	47	77	566	.80	5.4	.08	2.4
8	.26	.00	.00	.00	7.7	31	66	225	.11	3.6	8.1	2.0
9	.00	.00	.00	.00	1.7	24	55	133	2.7	2.1	4.1	.70
10	.00	.00	.00	.00	.62	19	44	91	6.1	.97	2.1	.20
11	.00	.00	.00	.00	14	22	40	58	4.7	5.7	.07	.01
12	.00	.00	.00	.00	334	773	34	44	6.1	6.9	.01	2.6
13	.00	.00	.00	.00	463	275	31	39	9.8	4.0	.37	30
14	.00	.00	.00	.55	182	112	32	35	12	.49	.61	33
15	.00	.00	.00	2.0	70	76	32	29	5.9	.00	.76	16
16	.00	.00	.00	1.0	47	48	32	23	1.7	.02	.54	8.1
17	.00	.05	.00	.50	44	32	27	21	.25	.65	.24	6.7
18	.00	.05	.00	.10	33	38	27	18	1.6	1.1	.03	5.0
19	.00	.00	.00	.00	37	41	26	16	2.4	.01	.00	33
20	.00	.00	.00	.00	57	37	25	15	2.4	.00	.00	18
21	.00	.00	.00	.00	55	35	25	15	2.7	.00	183	8.4
22	.00	.00	.00	.00	55	52	37	15	4.0	.00	46	4.2
23	14	.00	.00	.00	392	56	321	12	1.1	.72	18	.54
24	86	.00	.00	.00	519	42	592	7.9	12	1.8	8.9	273
25	24	.00	.00	.00	90	38	165	7.3	33	.98	3.5	127
26	9.5	4.1	.00	.00	180	37	99	6.7	12	.00	3.8	24
27	4.7	.00	.00	.00	216	168	68	6.5	9.6	.00	3.0	9.2
28	3.0	.00	.00	.00	101	2500	53	9.2	112	.00	1.9	4.4
29	1.5	.00	.00	.00	---	2000	45	11	51	.00	10	5.1
30	9.5	.00	.00	.00	---	475	36	11	164	41	11	20
31	11	---	.00	.00	---	246	---	8.7	---	21	4.6	---
TOTAL	194.64	19.50	.00	4.15	2901.12	8147	3162	2073.3	487.46	704.54	335.79	645.22
MEAN	6.28	.65	.000	.13	104	263	105	66.9	16.2	22.7	10.8	21.5
MAX	86	7.4	.00	2.0	519	2500	592	566	164	461	183	273
MIN	.00	.00	.00	.00	.00	19	25	6.5	.11	.00	.00	.01
CFSM	.03	.003	.000	.001	.43	1.10	.44	.28	.07	.10	.05	.09
IN.	.03	.00	.00	.00	.45	1.26	.49	.32	.08	.11	.05	.10

CAL YR 1976 TOTAL 23358.99 MEAN 63.8 MAX 2850 MIN .00 CFSM .27 IN 3.62
WTR YR 1977 TOTAL 18674.72 MEAN 51.2 MAX 2500 MIN .00 CFSM .21 IN 2.89

03378900 LITTLE WABASH RIVER AT LOUISVILLE, IL

LOCATION.--Lat 38°46'23", long 88°29'50", in NW¼SE¼ sec.23, T.4 N., R.6 E., Clay County, Hydrologic Unit 05120114, on right bank at city of Louisville pumphouse, 0.5 mi (0.8 km) downstream from county highway bridge and 0.7 mi (1.1 km) downstream from Panther Creek.

DRAINAGE AREA.--745 mi² (1,930 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1965 to current year.

REVISED RECORDS.--WDR IL-73: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 420.51 ft (128.171 m) above mean sea level. Prior to Nov. 20, 1972, nonrecording gage at site 0.5 mi (0.8 km) upstream at present datum.

REMARKS.--Water-discharge records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--12 years, 561 ft³/s (15.89 m³/s), 10.23 in/yr (260 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,000 ft³/s (680 m³/s) Dec. 22, 1967, gage height, 31.00 ft (9.449 m); minimum daily, 0.5 ft³/s (0.014 m³/s) Oct. 5, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1950 reached a stage of 36.1 ft (11.00 m), present datum, at the U.S. Highway 45 crossing 0.5 mi (0.8 km) north of Louisville and about 1.5 mi (2.4 km) upstream from present site.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,760 ft³/s (276 m³/s) Mar. 29, gage height, 26.97 ft (8.220 m); minimum daily, 3.0 ft³/s (0.085 m³/s) Jan. 1-7, 12-14, 20-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	78	12	3.0	3.6	491	3050	72	17	132	14	74
2	11	76	10	3.0	3.6	290	774	63	17	473	23	34
3	9.0	47	10	3.0	3.6	279	896	57	17	248	25	21
4	8.0	36	9.0	3.0	3.5	1310	648	57	16	95	17	15
5	8.0	30	9.0	3.0	3.5	1550	449	51	12	51	11	15
6	20	25	8.0	3.0	3.5	577	382	48	12	34	8.5	13
7	110	20	7.7	3.0	3.5	275	300	404	12	27	15	22
8	109	16	6.6	3.3	3.5	182	251	848	12	23	30	22
9	51	14	6.4	3.5	3.6	136	212	394	12	20	12	16
10	33	12	5.9	3.5	4.3	104	193	219	16	18	10	11
11	20	10	5.9	3.2	8.1	89	165	145	13	21	16	9.3
12	15	9.0	5.9	3.0	78	1310	148	104	14	40	50	8.3
13	12	8.0	6.3	3.0	1130	2880	132	72	18	23	100	24
14	9.0	8.0	6.4	3.0	1970	2500	118	59	23	24	20	156
15	8.0	7.0	6.4	3.5	1180	756	110	51	19	21	8.7	172
16	7.0	7.0	6.2	4.0	500	297	101	46	23	17	8.2	98
17	6.0	7.0	5.9	3.5	309	193	95	40	26	14	7.6	56
18	6.0	6.0	5.5	3.5	205	202	89	35	20	13	6.9	35
19	5.0	6.0	5.5	3.5	153	195	84	33	15	11	6.5	29
20	5.0	6.0	5.5	3.0	142	167	82	29	13	10	4.8	27
21	5.0	7.0	5.2	3.0	155	147	85	28	11	12	4.3	26
22	10	8.0	5.5	3.0	154	133	134	28	14	23	9.5	42
23	20	10	5.5	4.0	188	141	139	26	13	12	101	33
24	55	10	5.5	4.7	1430	162	222	26	25	9.8	1230	60
25	298	12	4.9	4.7	1350	131	770	26	106	297	726	381
26	253	12	4.5	4.7	483	98	347	24	251	565	150	433
27	92	15	4.3	4.7	1630	336	188	21	193	242	46	158
28	50	20	4.0	4.7	1550	4540	132	20	79	50	24	69
29	34	17	4.0	4.5	---	8460	98	18	156	22	102	40
30	29	14	4.0	4.1	---	8530	81	17	292	14	505	29
31	29	---	3.5	3.8	---	5580	---	17	---	11	239	---
TOTAL	1342.0	553.0	195.0	110.4	12651.3	42061	10475	3078	1467	2572.8	3531.0	2128.6
MEAN	43.3	18.4	6.29	3.56	452	1356	349	99.3	48.9	83.0	114	71.0
MAX	298	78	12	4.7	1970	8530	3050	848	292	565	1230	433
MIN	5.0	6.0	3.5	3.0	3.5	89	81	17	11	9.8	4.3	8.3
CFSM	.06	.03	.008	.005	.61	1.82	.47	.13	.07	.11	.15	.10
IN.	.07	.03	.01	.01	.63	2.10	.52	.15	.07	.13	.18	.11

CAL YR 1976 TOTAL 89067.2 MEAN 243 MAX 9070 MIN 3.5 CFSM .33 IN 4.45
WTR YR 1977 TOTAL 80145.1 MEAN 220 MAX 8530 MIN 3.0 CFSM .30 IN 4.00

03378900 LITTLE WABASH RIVER AT LOUISVILLE, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1971 to current year.
WATER TEMPERATURES: April 1971 to current year.
SUSPENDED-SEDIMENT DISCHARGE: March to September 1977.

INSTRUMENTATION.--Specific conductance and water temperature recorder since April 1971. Sediment pumping sampler since March 1977.

REMARKS.--Water-quality samples were collected at this station from April 1971 to September 1976. Interruptions in daily conductance and temperature records were due to instrument malfunctions. Suspended-sediment samples were collected daily except during high runoff periods, when they were collected more frequently. Prior to Aug. 25, 1975, the recorder was located on U.S. Highway 45, 1 mi (2 km) upstream from the gaging station.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE (water years 1971-75, 1977): Maximum recorded, 1,040 micromhos Feb. 5, 1977; minimum, 131 micromhos Feb. 24, 1975.
WATER TEMPERATURES (water years 1971-75, 1977): Maximum recorded, 31.5°C July 18, 1977; minimum, 0.0°C on many days during winter periods.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 912 mg/L May 8, 1977; minimum daily mean, 20 mg/L Aug. 10, 1977.
SEDIMENT LOADS: Maximum daily, 8,770 tons (7,960 tonnes) Mar. 29, 1977; minimum daily, 0.54 tons (0.49 tonne) Aug. 10, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,040 micromhos Feb. 5; minimum, 190 micromhos Mar. 29.
WATER TEMPERATURES: Maximum recorded, 31.5°C July 18; minimum, 0.0°C on many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 912 mg/L May 8; minimum daily mean, 20 mg/L Aug. 10.
SEDIMENT LOADS: Maximum daily, 8,770 tons (7,960 tonnes) Mar. 29; minimum daily, 0.54 tons (0.49 tonne) Aug. 10.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	431	417	425	512	495	503	683	643	665	898	876	887
2	448	430	438	545	518	533	697	667	679	912	867	908
3	461	446	452	588	550	561	720	691	703	935	912	922
4	476	463	468	627	589	613	741	713	727	931	923	928
5	491	480	484	619	581	605	744	727	738	947	928	938
6	516	493	500	575	541	557	752	728	743	956	947	952
7	603	463	526	564	516	535	754	711	724	971	956	962
8	554	403	455	563	517	534	755	723	741	988	971	983
9	469	340	393	553	526	542	759	746	756	1000	988	996
10	368	310	332	590	536	571	754	743	750	1010	991	998
11	413	316	349	591	551	569	767	749	760	1020	974	994
12	369	331	345	604	543	567	771	764	767	971	959	965
13	408	362	382	599	546	582	807	772	790	971	950	957
14	439	393	416	579	532	552	813	776	786	956	965	950
15	468	412	434	558	531	542	780	765	773	965	942	944
16	472	455	467	575	530	560	781	768	775	953	942	947
17	476	470	473	578	510	556	794	774	783	976	956	969
18	489	476	482	593	567	586	805	787	795	979	971	975
19	523	494	507	610	553	582	814	802	809	985	974	977
20	540	529	536	609	570	590	828	808	816	991	968	977
21	553	543	547	604	535	570	867	827	858	976	950	967
22	556	478	509	589	544	565	869	842	857	962	945	952
23	517	426	480	603	554	588	866	823	853	994	936	956
24	460	430	443	612	551	587	870	830	851	982	936	957
25	490	416	451	613	557	588	837	805	826	945	900	937
26	478	418	447	620	553	585	846	807	832	940	935	938
27	432	413	423	631	582	608	855	842	847	939	927	936
28	445	428	436	649	616	634	869	844	860	941	931	935
29	459	449	454	654	639	646	901	866	878	936	931	933
30	474	464	471	666	647	657	902	875	889	---	---	---
31	492	480	487	---	---	---	904	867	884	---	---	---
MONTH	603	310	452	666	495	576	904	643	791	1020	876	953

03378900 LITTLE WABASH RIVER AT LOUISVILLE, IL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	370	279	322	428	325	351	654	415	648
2	---	---	---	466	375	422	545	441	505	659	647	653
3	---	---	---	524	467	493	574	472	531	660	652	657
4	---	---	---	527	321	431	491	464	473	670	653	662
5	1040	943	991	330	301	309	527	494	512	700	664	685
6	1030	957	1010	379	334	361	586	530	560	703	692	698
7	1030	995	1010	438	382	410	605	590	600	690	572	658
8	1030	1010	1020	497	441	468	605	587	594	546	398	424
9	---	---	---	538	500	518	592	584	588	463	415	433
10	---	---	---	546	515	529	604	593	597	491	460	480
11	---	---	---	583	548	566	613	605	608	---	---	---
12	993	697	911	584	306	441	622	615	620	---	---	---
13	864	385	592	285	236	245	627	613	623	---	---	---
14	370	308	323	320	243	280	692	620	649	---	---	---
15	328	308	317	428	326	380	680	663	679	---	---	---
16	344	327	332	502	433	469	695	684	689	---	---	---
17	340	330	337	545	506	527	704	697	701	---	---	---
18	342	320	333	577	542	552	713	707	711	574	562	567
19	377	336	354	631	581	611	720	715	717	590	578	584
20	425	381	411	676	634	652	731	718	725	608	593	599
21	449	427	437	697	680	690	733	727	731	630	614	619
22	478	450	468	690	681	686	740	618	727	640	629	632
23	492	450	478	712	685	695	713	546	630	662	641	650
24	489	269	362	718	703	710	779	720	750	666	655	658
25	294	274	281	733	715	724	742	489	566	666	661	663
26	316	295	301	729	710	716	530	496	514	676	665	670
27	322	228	290	715	426	658	555	523	535	680	671	675
28	275	220	238	408	194	272	589	552	570	698	679	688
29	---	---	---	204	190	197	608	584	597	708	688	696
30	---	---	---	230	198	208	640	597	617	715	693	701
31	---	---	---	324	233	283	---	---	---	723	699	706
MONTH	1040	220	514	733	190	478	779	325	609	723	398	629

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	723	699	709	512	440	459	---	---	---	291	258	277
2	738	699	711	---	---	---	---	---	---	288	271	283
3	731	702	711	---	---	---	---	---	---	299	284	291
4	729	706	715	---	---	---	317	292	303	344	300	325
5	748	717	732	---	---	---	347	317	327	368	347	358
6	748	729	741	---	---	---	387	347	363	421	366	385
7	746	724	735	---	---	---	447	390	412	429	409	417
8	743	721	732	---	---	---	461	450	459	437	399	426
9	---	---	---	---	---	---	460	455	459	407	392	402
10	---	---	---	---	---	---	467	457	462	482	401	432
11	699	695	696	---	---	---	---	---	---	511	464	495
12	695	691	693	---	---	---	---	---	---	515	477	489
13	691	675	680	---	---	---	---	---	---	500	467	486
14	683	679	682	---	---	---	---	---	---	---	---	---
15	685	677	681	---	---	---	584	577	580	---	---	---
16	695	675	680	---	---	---	583	574	578	---	---	---
17	679	656	664	---	---	---	574	556	569	---	---	---
18	669	660	665	477	461	469	571	560	565	---	---	---
19	688	667	676	492	480	484	566	562	564	---	---	---
20	707	688	696	501	493	496	568	557	563	---	---	---
21	730	707	716	518	504	508	565	558	562	---	---	---
22	730	706	722	539	521	533	565	554	561	---	---	---
23	738	727	733	535	496	510	---	---	---	---	---	---
24	736	613	694	500	441	492	---	---	---	---	---	---
25	657	555	599	---	---	---	---	---	---	---	---	---
26	718	500	504	---	---	---	---	---	---	---	---	---
27	590	411	475	---	---	---	---	---	---	---	---	---
28	471	397	432	---	---	---	---	---	---	---	---	---
29	492	428	462	---	---	---	---	---	---	---	---	---
30	482	402	437	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	254	212	230	---	---	---
MONTH	748	397	656	539	440	494	584	212	472	515	258	390
YEAR	1040	190	607									

03378900 LITTLE WABASH RIVER AT LOUISVILLE, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	19.0	16.5	17.5	8.0	7.0	7.5	3.0	2.5	3.0	0.0	0.0	0.0
2	19.0	16.5	17.5	8.0	7.0	7.5	2.5	2.0	2.5	0.0	0.0	0.0
3	19.5	17.0	18.0	8.0	7.0	7.5	3.0	1.5	2.0	0.5	0.0	0.0
4	19.0	17.0	18.0	7.0	6.0	6.5	4.0	2.0	2.5	1.0	0.5	0.5
5	19.0	18.0	18.5	7.0	5.5	6.0	3.0	1.5	2.0	1.0	0.5	0.5
6	18.0	16.5	17.5	7.0	5.5	6.0	2.5	2.0	2.0	1.0	0.5	0.5
7	16.5	15.0	16.0	7.0	5.0	5.5	2.5	1.0	1.5	0.5	0.0	0.5
8	15.0	14.0	14.5	6.5	4.0	5.0	2.0	1.0	1.0	0.5	0.0	0.0
9	14.0	13.0	13.5	7.5	4.5	5.5	2.0	0.5	1.5	0.0	0.0	0.0
10	14.0	12.5	13.0	7.5	5.0	6.0	2.0	1.0	1.5	0.0	0.0	0.0
11	14.0	12.0	13.0	5.5	4.5	5.0	1.5	1.0	1.0	0.0	0.0	0.0
12	15.0	12.5	13.5	6.0	3.5	4.5	2.0	1.0	1.5	0.0	0.0	0.0
13	16.0	13.5	14.5	4.5	3.0	3.5	1.5	0.5	1.0	0.5	0.0	0.0
14	15.0	12.5	14.0	5.0	3.0	3.5	2.0	0.5	1.0	0.5	0.5	0.5
15	15.5	13.5	14.0	5.5	3.0	4.0	2.5	1.0	1.5	0.5	0.0	0.0
16	14.5	12.0	13.0	5.5	3.0	3.5	2.0	1.5	1.5	0.0	0.0	0.0
17	14.0	11.0	12.0	5.0	3.0	4.0	3.0	1.5	2.0	0.0	0.0	0.0
18	12.5	10.0	11.0	6.0	3.0	4.5	3.0	1.5	2.0	0.0	0.0	0.0
19	11.0	10.5	11.0	7.0	4.0	5.0	3.0	1.5	2.5	0.0	0.0	0.0
20	11.0	9.5	10.5	6.5	4.0	5.0	2.5	0.5	1.5	0.0	0.0	0.0
21	11.5	9.0	9.5	5.0	4.0	4.5	1.0	0.0	0.5	0.0	0.0	0.0
22	10.0	8.0	9.0	5.0	3.0	3.5	1.0	0.0	0.5	0.0	0.0	0.0
23	10.0	8.5	9.5	4.5	3.0	3.5	1.5	0.5	1.0	0.0	0.0	0.0
24	10.0	9.5	10.0	5.5	3.5	4.0	1.0	0.0	0.5	0.5	0.0	0.0
25	10.5	9.5	10.0	6.0	3.0	5.0	2.0	1.0	1.5	0.0	0.0	0.0
26	10.0	9.5	10.0	7.0	6.0	6.5	2.0	0.5	1.5	0.5	0.0	0.5
27	9.5	8.5	9.0	7.0	4.5	6.0	2.0	1.0	1.5	0.0	0.0	0.0
28	8.5	7.5	8.0	4.5	3.0	3.5	2.0	1.0	1.5	0.5	0.0	0.0
29	7.5	7.0	7.0	4.0	2.5	3.0	1.5	0.0	0.5	0.0	0.0	0.0
30	8.0	7.0	7.5	3.5	2.0	2.5	1.0	0.0	0.5	0.0	0.0	0.0
31	8.5	7.5	8.0	---	---	---	0.5	0.0	0.0	0.0	0.0	0.0
MONTH	19.5	7.0	12.5	8.0	2.0	5.0	4.0	0.0	1.5	1.0	0.0	0.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	4.5	4.0	4.0	14.0	13.0	13.5	17.5	16.5	17.0
2	0.5	0.0	0.0	4.5	3.5	4.0	14.0	13.0	13.5	18.5	18.0	18.5
3	0.5	0.5	0.5	6.0	4.5	5.0	14.0	13.5	14.0	19.0	18.5	19.0
4	1.0	0.0	0.5	7.5	6.5	7.0	14.5	13.5	14.0	20.0	19.0	19.5
5	0.0	0.0	0.0	8.0	7.0	7.5	13.0	11.0	12.0	22.0	20.0	21.0
6	0.5	0.0	0.0	7.5	6.5	7.0	11.0	10.5	10.5	23.5	21.0	22.5
7	1.5	0.5	1.0	7.5	6.5	7.0	11.5	10.0	10.5	23.0	21.5	22.5
8	1.5	1.0	1.0	8.5	6.5	7.5	12.5	10.5	11.5	21.5	20.0	20.5
9	1.5	1.0	1.0	9.0	8.0	8.5	13.5	11.0	12.5	20.5	19.5	20.0
10	1.5	1.5	1.5	9.5	8.5	9.0	15.5	13.0	14.0	19.5	18.5	19.0
11	1.5	1.0	1.5	11.5	9.5	10.5	17.0	15.0	16.0	---	---	---
12	1.5	1.0	1.0	13.5	11.5	13.0	18.0	17.0	17.5	---	---	---
13	1.0	1.0	1.0	14.0	12.5	13.5	19.5	18.0	19.0	---	---	---
14	1.5	1.0	1.0	12.5	12.0	12.0	20.0	19.0	20.0	---	---	---
15	1.0	0.5	1.0	13.0	12.0	12.5	20.5	19.5	20.5	---	---	---
16	1.0	0.5	1.0	13.0	12.0	12.5	21.5	20.5	21.0	---	---	---
17	1.0	0.5	0.5	12.5	11.5	12.0	21.5	21.0	21.0	---	---	---
18	1.0	0.5	0.5	11.5	10.0	10.5	21.5	21.0	21.0	24.5	22.0	23.5
19	1.0	0.5	1.0	10.0	9.5	10.0	21.0	20.0	21.0	25.0	22.5	24.0
20	1.0	0.5	1.0	10.0	9.0	9.5	21.5	20.0	20.5	25.0	23.0	24.0
21	1.0	0.5	0.5	10.5	8.5	9.5	21.5	20.0	20.5	25.0	23.5	24.5
22	1.5	0.5	1.0	10.5	9.5	10.0	20.0	19.0	20.0	26.0	23.5	24.5
23	2.0	1.0	1.5	10.5	9.0	10.0	19.0	17.5	18.5	25.0	24.0	24.5
24	6.0	2.5	4.5	10.5	9.0	10.0	18.0	17.0	17.5	25.0	22.5	24.5
25	6.5	6.0	6.5	11.0	9.5	10.0	16.5	14.5	15.0	25.0	23.5	24.5
26	6.5	5.0	6.0	12.0	10.5	11.5	15.5	14.5	15.0	26.0	23.5	24.5
27	5.0	3.5	4.5	13.0	12.0	12.5	17.0	14.5	15.5	27.0	23.5	24.5
28	4.0	3.0	3.5	16.0	13.5	15.0	17.0	16.5	17.0	27.0	24.0	25.0
29	---	---	---	17.0	15.5	16.0	17.0	16.0	16.5	26.5	23.0	25.0
30	---	---	---	18.0	16.5	17.0	16.5	16.0	16.5	27.0	23.5	25.0
31	---	---	---	16.5	14.0	15.0	---	---	---	27.5	23.5	25.0
MONTH	6.5	0.0	1.5	18.0	3.5	10.5	21.5	10.0	16.5	27.5	16.5	22.5

03378900 LITTLE WABASH RIVER AT LOUISVILLE, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.5	23.0	24.5	26.5	24.5	25.5	27.0	26.0	26.0	26.5	25.5	26.0
2	26.5	22.5	24.0	25.5	24.5	25.0	26.0	25.0	25.5	28.5	26.0	27.0
3	26.0	21.5	23.0	25.5	24.0	24.5	26.0	24.5	25.0	27.5	27.0	27.0
4	25.0	21.5	23.0	26.5	25.0	25.5	26.0	24.5	25.5	27.0	26.5	26.5
5	27.5	22.0	24.0	28.5	26.0	27.5	27.0	25.5	26.5	27.0	26.0	26.5
6	26.0	22.0	24.0	30.0	27.0	28.5	27.5	26.5	27.0	26.5	25.5	26.0
7	24.5	20.0	22.0	30.5	28.5	29.5	27.0	26.5	27.0	27.0	25.5	26.0
8	21.0	19.5	20.5	31.0	29.5	30.0	27.0	26.0	26.5	26.5	25.5	26.0
9	---	---	---	30.5	27.5	29.0	27.0	26.0	26.5	26.0	25.0	25.5
10	---	---	---	29.0	27.5	28.0	26.0	25.5	25.5	25.0	24.0	24.5
11	23.5	20.0	21.5	---	---	---	---	---	---	23.5	22.5	23.0
12	25.0	22.0	23.0	---	---	---	---	---	---	22.5	21.5	22.0
13	23.5	22.0	22.5	---	---	---	---	---	---	22.0	21.0	21.5
14	24.0	22.0	23.0	---	---	---	---	---	---	22.0	20.0	20.5
15	25.5	22.5	24.0	---	---	---	26.5	25.5	26.0	24.5	22.0	23.5
16	26.0	23.5	24.5	---	---	---	27.5	26.0	26.5	24.5	22.0	22.5
17	27.0	25.0	26.0	---	---	---	27.5	26.0	26.5	23.0	20.5	21.5
18	28.5	26.0	27.0	31.5	30.5	31.0	26.0	24.5	25.0	23.0	21.5	22.0
19	27.0	26.0	26.5	30.5	29.5	30.0	24.5	23.5	24.0	23.5	22.5	23.0
20	28.0	25.5	26.5	30.0	28.5	29.0	24.0	23.0	23.5	23.5	22.5	23.0
21	26.5	25.5	26.0	29.5	28.0	28.5	24.0	23.0	23.5	24.5	23.5	24.0
22	25.5	24.0	24.5	28.0	26.5	27.5	24.0	22.5	23.0	23.5	20.5	22.0
23	25.5	24.0	24.5	26.5	25.0	25.5	23.5	22.0	22.5	21.0	20.5	20.5
24	25.0	24.0	24.5	26.0	24.5	25.5	22.0	19.5	20.0	22.5	21.0	21.5
25	25.0	24.0	24.5	25.5	21.5	23.5	21.5	20.5	21.0	---	---	---
26	25.0	24.5	25.0	23.5	21.5	22.0	22.5	21.0	22.0	---	---	---
27	25.5	24.5	25.0	23.0	21.5	22.0	25.0	23.0	24.0	---	---	---
28	25.5	25.0	25.0	23.5	22.5	23.0	26.0	24.5	25.5	---	---	---
29	26.0	24.5	25.0	25.0	23.0	23.5	26.0	23.5	25.5	---	---	---
30	26.0	25.0	25.5	26.0	24.0	24.5	24.5	23.5	24.0	---	---	---
31	---	---	---	26.5	25.0	25.5	25.5	24.0	25.0	---	---	---
MONTH	28.5	19.5	24.5	31.5	21.5	26.5	27.5	19.5	25.0	28.5	20.0	24.0
YEAR	31.5	0.0	13.5									

03378900 LITTLE WABASH RIVER AT LOUISVILLE, IL--Continued

SUSPENDED-SEDIMENT, MARCH TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1											---	---
2											---	---
3											---	---
4											---	---
5											---	---
6											---	---
7											---	---
8											---	---
9											---	---
10											51	14
11											48	12
12											285	1010
13											352	2740
14											451	3040
15											389	794
16											130	104
17											100	52
18											105	57
19											60	32
20											56	25
21											55	22
22											50	18
23											54	21
24											57	25
25											47	17
26											45	12
27											343	678
28											627	6790
29											382	8770
30											330	7600
31											280	4220
TOTAL											---	36053

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	167	1380	62	12	93	4.3	212	63	215	8.1	198	40
2	156	326	73	12	58	2.7	511	650	132	8.2	155	14
3	490	1220	73	11	52	2.4	503	337	98	6.6	134	7.6
4	400	700	75	12	76	3.3	300	77	105	4.8	143	5.8
5	171	207	78	11	57	1.8	246	34	106	3.1	118	4.8
6	157	162	81	10	77	2.5	181	17	110	2.5	131	4.6
7	40	32	330	475	91	2.9	140	10	82	3.3	159	9.4
8	56	38	912	2190	121	3.9	98	6.1	42	3.4	173	10
9	54	31	463	493	96	3.1	102	5.5	32	1.0	178	7.7
10	51	27	354	209	93	4.0	105	5.1	20	0.54	152	4.5
11	59	26	195	76	122	4.3	108	6.1	46	2.0	135	3.4
12	26	10	121	34	106	4.0	113	12	47	6.3	111	2.5
13	40	14	92	18	99	4.8	94	5.8	66	18	115	7.5
14	40	13	99	16	114	7.1	117	7.6	63	3.4	177	75
15	61	18	82	11	145	7.4	101	5.7	68	1.6	157	73
16	99	27	87	11	139	8.6	88	4.0	69	1.5	156	41
17	74	19	68	7.3	165	12	51	1.9	71	1.5	168	25
18	102	25	69	6.5	157	8.5	53	1.9	67	1.2	118	11
19	67	15	66	5.9	150	6.1	56	1.7	81	1.4	118	9.2
20	106	23	87	6.8	123	4.3	62	1.7	75	0.97	180	13
21	78	18	79	6.0	131	3.9	59	1.9	83	0.96	138	9.7
22	80	26	95	7.2	141	5.3	59	3.7	91	2.3	110	12
23	153	57	63	4.4	130	4.6	60	1.9	97	26	111	9.9
24	157	106	90	6.3	117	7.9	77	2.0	563	1850	155	25
25	474	1000	101	7.1	165	47	511	435	209	434	321	347
26	244	229	88	5.7	159	104	501	764	180	73	320	374
27	169	86	94	5.3	285	130	175	114	177	22	277	118
28	114	41	53	2.9	202	39	168	23	148	9.6	259	48
29	88	23	68	3.3	199	90	127	7.5	127	35	131	14
30	96	21	59	2.7	290	204	135	5.1	200	273	109	8.5
31	---	---	60	2.8	---	---	94	2.8	180	116	---	---
TOTAL	---	5920	---	3681.2	---	733.7	---	2614.0	---	2921.27	---	1335.1

TOTAL LOAD FOR YEAR: 53258.27 TONS.

03379500 LITTLE WABASH RIVER BELOW CLAY CITY, IL

LOCATION.--Lat 38°38'05", long 88°17'50", in SE¼ sec.3, T.2 N., R.8 E., Clay County, Hydrologic Unit 05120114, on right bank 300 ft (91 m) downstream from highway bridge, 0.3 mi (0.5 km) downstream from Big Muddy Creek and 5 mi (8 km) southeast of Clay City.

DRAINAGE AREA.--1,131 mi^2 (2,929 km^2).

PERIOD OF RECORD.--August 1914 to current year. Prior to October 1958, published as "at Wilcox." Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 973: 1937-40. WSP 1335: 1915-33, 1934(M), 1935, 1940, 1941(M), 1946(M). WSP 1625: 1958. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 392.29 ft (119.570 m) above mean sea level. Prior to Jan. 2, 1947, nonrecording gage at highway bridge 300 ft (91 m) upstream at same datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--63 years, 869 ft^3/s (24.61 m^3/s), 10.43 in/yr (265 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,000 ft^3/s (1,330 m^3/s) Jan. 5, 1950, gage height, 26.67 ft (8.129 m); no flow Sept. 3-19, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,420 ft^3/s (267 m^3/s) Mar. 29, gage height, 21.90 ft (6.675 m); minimum daily, 4.5 ft^3/s (0.13 m^3/s) Jan. 25-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	49	22	8.0	5.0	1790	6930	149	22	374	25	344
2	19	48	20	8.0	5.0	786	5660	125	21	243	19	148
3	16	90	18	8.0	5.0	452	4080	112	20	454	21	79
4	13	82	16	9.0	5.0	925	2240	103	19	318	31	52
5	11	62	16	10	5.0	1760	1180	99	19	151	31	38
6	10	45	15	9.5	5.0	1660	648	92	18	87	24	30
7	9.5	34	14	9.0	6.5	788	472	93	17	59	21	30
8	22	27	13	8.5	10	371	369	467	16	43	29	27
9	116	22	14	8.0	15	248	299	825	16	34	43	32
10	84	19	16	7.5	20	191	255	468	17	29	37	31
11	47	16	14	7.0	26	161	224	268	19	81	31	25
12	28	13	13	7.0	72	739	201	188	19	304	34	21
13	19	12	12	7.0	584	2520	177	145	20	136	38	20
14	14	11	11	7.5	1450	2780	158	114	21	71	157	24
15	11	10	10	8.0	1800	2580	141	94	23	43	131	121
16	10	9.8	9.5	8.0	1100	1330	130	82	24	34	63	192
17	9.1	9.5	9.0	7.5	800	458	120	73	22	27	33	128
18	8.6	11	9.0	7.0	600	316	114	65	22	22	21	81
19	8.7	10	9.0	7.0	400	365	109	59	24	18	15	57
20	8.9	10	8.5	6.5	300	336	104	55	22	16	12	42
21	8.4	9.9	8.5	6.5	266	292	99	51	18	15	10	34
22	8.6	11	8.5	6.0	255	241	123	47	18	13	9.5	29
23	11	14	8.0	5.5	244	217	392	43	18	12	11	30
24	19	15	8.0	5.0	415	207	342	41	19	20	791	52
25	37	17	8.0	4.5	1540	216	420	39	87	24	2410	290
26	191	21	8.0	4.5	1630	189	781	38	161	241	1420	463
27	296	23	8.0	4.5	2110	341	456	36	348	562	391	488
28	164	27	8.0	4.5	2280	3310	333	33	492	312	123	224
29	94	28	8.0	5.0	---	7640	317	31	432	113	245	107
30	68	25	8.0	5.0	---	8330	201	28	289	56	473	64
31	59	---	8.0	5.0	---	7970	---	25	---	36	602	---
TOTAL	1423.8	781.2	358.0	214.0	15953.5	49509	27075	4088	2283	3948	7301.5	3303
MEAN	45.9	26.0	11.5	6.90	570	1597	903	132	76.1	127	236	110
MAX	296	90	22	10	2280	8330	6930	825	492	562	2410	488
MIN	8.4	9.5	8.0	4.5	5.0	161	99	25	16	12	9.5	20
CFSM	.04	.02	.01	.006	.50	1.41	.80	.12	.07	.11	.21	.10
IN.	.05	.03	.01	.01	.52	1.63	.89	.13	.08	.13	.24	.11

CAL YR 1976 TOTAL 127174.6 MEAN 347 MAX 5910 MIN 8.0 CFSM .31 IN 4.18
WTR YR 1977 TOTAL 116238.0 MEAN 318 MAX 8330 MIN 4.5 CFSM .28 IN 3.82

03379600 LITTLE WABASH RIVER AT BLOOD, IL

LOCATION.--Lat 38°31'08", long 88°07'55", in NE¼SE¼ sec.18, T.1 N., R.10 E., Edwards County, Hydrologic Unit 05120114, on right bank at downstream side of bridge on county highway, 0.5 mi (0.8 km) south of Blood, 1 mi (2 km) upstream from Sugar Creek, and 1.5 mi (2.4 km) downstream from Fox River.

DRAINAGE AREA.--1,387 mi² (3,592 km²).

PERIOD OF RECORD.--October 1972 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 371.37 ft (113.194 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Eight miscellaneous discharge measurements made during the year. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed gage height, 26.86 ft (8.187 m) Feb. 27, 1975; minimum observed, 6.87 ft (2.094 m) Oct. 15, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 25.10 ft (7.650 m) Apr. 1; minimum, 7.84 ft (2.390 m) Oct. 19-24.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.95	8.50	---	7.91	7.90	20.25	25.08	9.80	8.00	10.59	8.21	14.86
2	7.91	8.53	---	7.89	7.90	20.25	25.00	9.32	7.97	10.49	8.07	12.09
3	7.92	8.41	---	7.89	7.90	15.16	24.76	9.18	7.94	10.03	7.88	10.02
4	7.98	8.60	---	7.88	7.90	16.28	24.18	9.06	7.91	10.87	7.86	9.04
5	7.99	8.70	---	7.88	7.90	18.10	23.21	8.95	7.89	10.11	7.90	9.22
6	7.96	8.58	---	7.88	7.90	18.70	21.08	8.91	7.89	9.11	7.97	8.86
7	7.93	8.42	---	7.88	7.88	17.12	17.22	8.93	7.88	8.63	7.96	8.43
8	7.90	8.29	---	7.88	7.88	13.80	14.65	9.62	7.86	8.38	7.93	8.24
9	7.88	8.20	---	7.88	7.88	11.29	12.48	12.42	7.86	8.22	7.91	8.19
10	8.45	8.14	7.99	7.89	7.88	10.11	11.14	12.94	7.86	9.16	8.09	8.15
11	8.58	8.09	7.99	7.89	8.51	9.57	10.32	---	7.85	15.80	8.11	8.15
12	8.36	8.05	7.99	7.89	9.41	9.79	9.91	---	7.86	18.22	9.41	8.13
13	8.20	---	7.99	7.89	10.68	18.20	9.70	---	7.90	14.27	9.06	8.16
14	8.09	---	7.99	7.89	13.80	20.42	9.48	9.11	7.91	11.32	18.01	8.18
15	8.02	7.93	7.99	7.89	17.10	20.45	9.38	8.85	7.92	9.34	16.31	8.15
16	7.96	7.93	7.99	7.89	18.03	18.28	9.24	8.72	7.93	8.63	12.38	8.99
17	7.91	7.91	7.98	7.89	17.07	15.06	9.14	8.58	7.95	8.35	9.84	9.40
18	7.87	7.91	7.97	7.89	14.60	13.00	9.08	8.54	7.96	8.20	8.85	9.05
19	7.84	7.91	7.97	7.89	11.81	11.83	9.02	8.44	7.96	8.09	8.35	8.73
20	7.84	7.91	7.97	7.89	10.63	11.26	9.01	8.41	7.96	8.03	8.06	8.50
21	7.84	7.91	7.94	7.89	10.00	10.96	8.98	8.37	7.98	7.96	7.94	8.34
22	7.84	7.91	7.92	7.90	9.86	10.90	9.02	8.32	8.00	7.92	7.86	8.23
23	7.88	---	7.92	7.90	10.05	10.24	9.70	8.26	7.98	7.89	7.92	8.15
24	7.95	7.90	7.91	7.93	10.71	9.89	11.76	8.22	7.96	7.86	16.76	9.34
25	8.01	7.90	7.91	7.94	13.31	9.76	11.40	8.19	8.00	8.05	19.00	10.58
26	8.26	7.97	7.90	7.96	17.38	9.64	12.48	8.17	8.62	8.38	20.02	10.94
27	9.16	7.99	7.90	7.98	20.12	13.74	12.92	8.15	9.99	9.86	17.17	11.81
28	9.86	---	7.90	7.99	20.88	22.60	11.58	8.12	12.37	11.33	12.39	11.14
29	9.22	---	8.15	7.96	---	23.60	11.72	8.12	13.34	10.05	15.25	9.66
30	8.81	---	8.13	7.93	---	24.40	11.10	8.10	11.83	8.90	17.84	8.88
31	8.61	---	7.92	7.90	---	25.00	---	8.06	---	8.44	16.76	---
MEAN	8.19	---	---	7.90	11.53	15.50	13.46	---	8.48	9.76	11.20	9.32
MAX	9.84	---	---	7.99	20.88	25.00	25.08	---	13.34	18.22	20.02	14.86
MIN	7.84	---	---	7.88	7.88	9.57	8.98	---	7.85	7.86	7.86	8.13

03380000 LITTLE WABASH RIVER NEAR GOLDEN GATE, IL

LOCATION.--Lat 38°22'19", long 88°13'59", at north boundary sec.8, T.2 S., R.9 E., Wayne County, Hydrologic Unit 05120114, on right bank at upstream side of bridge on State Highway 15, 1.5 mi (2.4 km) below Elm River, 2 mi (3 km) northwest of Golden Gate, and 6.5 mi (10.5 km) east of Fairfield.

DRAINAGE AREA.--1,792 mi² (4,641 km²).

PERIOD OF RECORD.--October 1972 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 358.49 ft (109.268 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Eight miscellaneous discharge measurements made during the year. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, about 27.3 ft (8.32 m) Mar. 1, 1975; minimum, 1.51 ft (0.460 m) Oct. 21, 22, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 24.96 ft (7.608 m) Apr. 4; minimum, 1.90 ft (0.579 m) Oct. 19.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.66	3.75	2.24	2.01	2.03	18.26	24.66	7.16	2.47	11.41	3.53	15.68
2	2.51	3.66	2.27	1.98	2.01	18.50	24.82	5.64	2.40	7.94	3.02	12.80
3	2.32	3.58	2.21	1.95	2.00	18.00	24.92	5.07	2.32	6.76	2.71	9.02
4	2.16	3.41	2.19	1.95	1.99	18.00	24.94	4.74	2.17	6.18	2.49	6.14
5	2.10	3.31	2.18	1.95	2.00	18.05	24.75	4.52	2.12	6.55	2.35	5.61
6	2.14	3.50	2.15	1.95	2.05	17.63	24.38	4.27	2.11	5.76	2.28	5.20
7	2.15	3.48	2.15	1.95	2.07	16.85	23.79	4.27	2.08	4.68	2.36	4.48
8	2.07	3.28	2.16	1.97	2.06	15.53	22.94	5.53	2.07	3.88	2.46	3.85
9	1.99	3.04	2.18	1.96	1.95	11.72	21.92	5.76	2.10	3.45	2.46	3.30
10	1.98	2.84	2.19	1.97	1.95	8.11	20.76	8.45	2.10	5.93	2.46	3.03
11	2.21	2.68	2.18	1.97	2.00	6.25	19.32	8.31	2.09	15.13	2.72	2.87
12	3.18	2.55	2.21	1.97	4.64	9.12	17.51	6.99	2.07	18.07	4.13	2.81
13	3.16	2.44	2.22	1.97	8.78	14.54	14.86	5.58	2.06	18.85	5.40	2.77
14	2.87	2.36	2.23	1.97	10.61	16.65	10.87	4.89	2.07	18.09	12.99	2.76
15	2.58	2.30	2.26	1.94	11.84	17.65	6.71	4.38	2.10	15.21	17.14	2.87
16	2.38	2.22	2.25	1.95	12.95	17.75	4.99	4.01	2.12	9.74	18.06	2.86
17	2.23	2.19	2.22	1.98	13.77	17.44	4.64	3.70	2.13	5.52	16.40	3.86
18	2.14	2.15	2.21	1.98	13.28	15.82	4.47	3.48	2.15	4.01	11.18	4.79
19	1.96	2.13	2.20	1.97	11.12	12.45	4.35	3.33	2.17	3.38	5.95	4.50
20	1.92	2.11	2.17	1.97	8.55	9.57	4.27	3.21	2.21	3.06	4.01	3.95
21	1.92	2.07	2.15	1.95	6.99	8.31	4.18	3.11	2.17	2.78	3.27	3.52
22	1.92	2.03	2.11	1.95	6.11	7.55	4.16	3.02	2.23	2.62	2.87	3.23
23	2.02	2.04	2.11	1.96	5.88	6.88	5.81	2.94	2.28	2.46	3.34	3.01
24	2.24	2.03	2.09	1.98	7.54	6.17	10.15	2.85	2.32	2.36	10.81	3.99
25	2.20	2.03	2.07	1.97	7.70	5.78	9.83	2.77	2.34	2.38	14.52	7.33
26	2.29	2.09	2.07	1.98	10.84	5.66	6.27	2.70	2.46	2.84	15.50	7.36
27	2.38	2.12	2.05	1.98	15.77	8.24	8.61	2.63	7.87	3.43	15.98	7.68
28	3.79	2.19	2.03	1.99	17.39	19.37	8.66	2.59	14.68	5.37	14.27	8.08
29	5.14	2.26	2.02	2.02	---	22.39	8.19	2.59	16.31	6.75	13.25	7.02
30	4.77	2.27	2.02	2.05	---	23.82	8.52	2.57	15.26	5.62	16.67	5.54
31	4.16	---	2.01	2.05	---	24.39	---	2.52	---	4.38	17.14	---
MEAN	2.57	2.60	2.15	1.97	7.00	14.08	13.54	4.31	3.70	6.92	8.12	5.33
MAX	5.14	3.75	2.27	2.05	17.39	24.39	24.94	8.45	16.31	18.85	18.06	15.68
MIN	1.92	2.03	2.01	1.94	1.95	5.66	4.16	2.52	2.06	2.36	2.28	2.76

WTR YR 1977 MEAN 6.01 MAX 24.94 MIN 1.92

03380350 SKILLET FORK NEAR IUKA, IL

LOCATION.--Lat 38°31'10", long 88°43'39", near south boundary of sec.14, T.1 N., R.4 E., Marion County, Hydrologic Unit 05120115, on right bank at downstream side of county highway bridge, 0.5 mi (0.8 km) upstream from Poplar Creek and 7.5 mi (12.1 km) southeast of Iuka.

DRAINAGE AREA.--208 mi² (539 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (122 m), from topographic map. Prior to Aug. 5, 1966, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year. Chemical data, and daily conductance and temperature data, were collected during water years 1974-76.

AVERAGE DISCHARGE.--12 years, 169 ft³/s (4.786 m³/s), 11.03 in/yr (280 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,000 ft³/s (538 m³/s) Dec. 22, 1967, gage height, 28.00 ft (8.534 m); no flow for several days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,050 ft³/s (171 m³/s) Mar. 29, gage height, 24.52 ft (7.474 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	15	2.0	.20	.00	123	100	35	.52	27	2.8	25
2	.22	10	1.8	.10	.00	82	283	24	.37	18	2.0	15
3	.19	7.0	1.2	.10	.00	109	206	19	.22	11	1.3	9.6
4	.19	3.9	1.5	.10	.00	665	110	18	.19	7.8	.94	6.4
5	.23	3.1	1.4	.10	.00	514	77	22	.16	6.2	.79	3.8
6	1.0	2.2	1.8	.10	.00	162	60	28	.16	4.8	.47	3.3
7	2.5	1.5	2.6	.10	.00	75	48	281	.08	4.3	.32	5.1
8	1.6	.99	2.8	.10	.00	51	36	193	.08	3.6	5.3	12
9	1.0	.74	2.7	.10	4.0	39	31	62	.11	10	6.1	7.2
10	.60	.88	2.8	.10	6.0	31	27	34	.46	22	40	4.4
11	.45	.93	3.3	.10	27	31	24	22	1.1	94	91	3.0
12	.32	.75	3.4	.10	137	853	22	17	1.5	757	90	1.9
13	.35	.64	3.4	.10	256	1140	21	14	1.1	338	49	1.5
14	.41	.71	3.0	.10	270	612	20	12	1.1	43	125	1.9
15	.35	.69	2.5	.10	111	130	18	10	.84	19	35	2.5
16	.32	.69	2.3	.10	67	73	18	9.0	.66	12	20	2.6
17	.27	.75	2.7	.10	47	51	16	7.4	3.2	8.4	13	2.6
18	.27	.80	2.9	.10	33	86	15	5.9	2.0	6.5	8.9	2.1
19	.25	1.0	3.0	.10	31	119	14	5.1	1.3	4.8	5.2	1.8
20	.34	.93	3.4	.10	28	89	26	4.5	.95	4.1	3.9	6.3
21	.37	.93	3.7	.00	25	68	30	3.5	1.8	3.2	59	13
22	.32	.97	2.6	.00	23	52	30	3.3	2.9	2.3	21	7.0
23	1.6	1.0	1.7	.00	29	49	139	2.6	4.7	1.4	177	3.6
24	8.1	1.1	1.5	.00	247	36	171	2.2	9.3	1.1	351	27
25	13	1.5	.70	.00	201	31	52	1.7	9.7	9.1	102	111
26	10	2.9	.70	.00	242	27	31	1.4	5.8	20	35	58
27	5.9	4.0	.70	.00	781	305	26	1.1	18	16	17	30
28	3.1	3.4	.60	.00	390	3760	70	1.1	160	11	11	15
29	1.7	2.9	.60	.00	---	5240	159	.93	136	6.0	309	9.5
30	4.4	2.6	.40	.00	---	2480	62	.60	48	4.1	83	6.1
31	20	---	.30	.00	---	584	---	.52	---	3.1	52	---
TOTAL	79.57	74.50	64.00	2.10	2945.00	17667	1942	841.85	412.30	1478.8	1718.02	398.2
MEAN	2.57	2.48	2.06	.068	105	570	64.7	27.2	13.7	47.7	55.4	13.3
MAX	20	15	3.7	.20	781	5240	283	281	160	757	351	111
MIN	.19	.64	.30	.00	.00	27	14	.52	.08	1.1	.32	1.5
CFSM	.01	.01	.01	.000	.51	2.74	.31	.13	.07	.23	.27	.06
IN.	.01	.01	.01	.00	.53	3.16	.35	.15	.07	.26	.31	.07

CAL YR 1976 TOTAL 22318.95 MEAN 61.0 MAX 2200 MIN .00 CFSM .29 IN 3.99
WTR YR 1977 TOTAL 27623.34 MEAN 75.7 MAX 5240 MIN .00 CFSM .36 IN 4.94

03380475 HORSE CREEK NEAR KEENES, IL

LOCATION.--Lat 38°22'34", long 88°39'44", in NW¼SW¼ sec.4, T.2 S., R.5 E., Wayne County, Hydrologic Unit 05120115, on right bank at downstream side of bridge on township road, 0.5 mi (0.8 km) downstream from Gregory Branch, 3 mi (5 km) northwest of Keenes, and 5 mi (8 km) upstream from mouth.

DRAINAGE AREA.--97.2 mi² (251.7 km²).

PERIOD OF RECORD.--July 1959 to current year.

REVISED RECORDS.--WSP 1725: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 395.35 ft (120.503 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--18 years, 91.1 ft³/s (2.580 m³/s), 12.73 in/yr (323 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,100 ft³/s (484 m³/s) May 8, 1961, gage height, 26.98 ft (8.224 m); no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft³/s (40 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Feb. 27	0415	1910	54.1	16.02	4.883	Mar. 28	1730	*5890	167	*20.86	6.358
Mar. 12	1615	1790	50.7	15.67	4.776						

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	10	1.3	.00	.00	47	84	10	.00	4.6	9.1	12
2	.03	5.5	.77	.00	.00	36	167	8.9	.00	5.2	1.8	8.1
3	.01	3.6	.47	.00	.00	173	353	8.1	.00	4.0	.45	4.0
4	.00	2.0	.35	.00	.00	571	69	12	.00	1.2	.00	2.3
5	.00	.99	.28	.00	.00	118	58	20	.00	.31	.00	1.3
6	.02	.46	.27	.00	.00	45	39	21	.00	.03	.00	1.1
7	.00	.30	.66	.00	.00	29	30	133	.00	.00	.00	.61
8	.00	.07	.84	.00	.00	23	25	104	.00	.00	.00	.45
9	.00	.03	.73	.00	.00	20	21	31	.00	.00	.00	.31
10	.00	.00	.84	.00	1.0	18	19	17	.00	.00	17	.17
11	.00	.00	1.5	.00	20	36	17	12	.45	91	54	.09
12	.00	.00	1.8	.00	146	1200	15	9.4	.06	23	54	.01
13	.00	.00	1.8	.00	142	468	14	7.7	.00	11	45	.01
14	.00	.00	1.7	.00	67	63	12	6.3	.00	3.7	209	.01
15	.00	.00	1.4	.00	35	39	12	5.4	.00	1.1	27	.00
16	.00	.00	1.2	.00	20	27	11	4.6	.00	.24	9.6	.00
17	.00	.00	1.0	.00	14	22	9.6	3.7	.00	.03	3.7	.06
18	.00	.00	1.0	.00	12	109	9.1	2.7	.00	.00	1.3	.31
19	.00	.00	1.1	.00	13	69	9.4	1.8	.00	.00	.73	.86
20	.00	.00	1.2	.00	13	42	9.6	1.2	.00	.00	.31	.61
21	.00	.00	.83	.00	11	35	9.6	1.1	.00	.00	.86	.45
22	.00	.00	.69	.00	11	29	23	1.9	.00	12	.31	.31
23	.00	.00	.52	.00	21	24	25	1.1	.56	12	56	.17
24	7.8	.00	.28	.00	67	21	162	.45	12	2.5	410	1.8
25	5.5	.00	.00	.00	42	18	47	.24	104	.86	22	5.2
26	2.2	.00	.00	.00	518	16	23	.14	19	15	10	2.3
27	1.3	.46	.00	.00	1080	554	17	.03	30	7.1	5.2	2.1
28	.46	2.0	.00	.00	77	4690	17	.01	65	2.0	2.9	1.5
29	.28	2.8	.00	.00	---	3120	16	.00	44	.36	523	.61
30	5.3	1.9	.00	.00	---	688	13	.00	12	.01	139	.17
31	24	---	.00	.00	---	379	---	.00	---	4.8	20	---
TOTAL	47.01	30.11	22.53	.00	2310.00	12729	1336.3	424.77	287.07	202.04	1622.26	46.91
MEAN	1.52	1.00	.73	.000	82.5	411	44.5	13.7	9.57	6.52	52.3	1.56
MAX	24	10	1.8	.00	1080	4690	353	133	104	91	523	12
MIN	.00	.00	.00	.00	.00	16	9.1	.00	.00	.00	.00	.00
CFSM	.02	.01	.008	.000	.85	4.23	.46	.14	.10	.07	.54	.02
IN.	.02	.01	.01	.00	.88	4.87	.51	.16	.11	.08	.62	.02

CAL YR 1976 TOTAL 5945.94 MEAN 16.2 MAX 458 MIN .00 CFSM .17 IN 2.28
WTR YR 1977 TOTAL 19058.00 MEAN 52.2 MAX 4690 MIN .00 CFSM .54 IN 7.29

03380500 SKILLET FORK AT WAYNE CITY, IL

LOCATION.--Lat 38°21'25", long 88°35'00", in SW¼ sec.7, T.2 S., R.6 E., Wayne County, Hydrologic Unit 05120115, on right bank 0.1 mi (0.2 km) downstream from Shoe Creek, 0.5 mi (0.8 km) downstream from bridge on State Highway 15, 0.9 mi (1.4 km) upstream from Southern Railway bridge, and 1 mi (2 km) north of Wayne City.

DRAINAGE AREA.--464 mi² (1,202 km²).

PERIOD OF RECORD.--August 1908 to December 1912, June 1914 to September 1921, June 1928 to current year.

REVISED RECORDS.--WSP 1143: 1947-48. WSP 1205: 1918-21, 1929-31, 1937-39. WSP 1335: 1908-13, 1916(M), 1930, 1934, 1935(M). WSP 1725: Drainage area.

GAGE.--Water-stage recorder and concrete dam since Nov. 17, 1954. Datum of gage is 383.15 ft (116.784 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 30, 1921, nonrecording gage at site 0.9 mi (1.4 km) downstream at datum about 3.0 ft (0.91 m) lower. June 11, 1928, to Oct. 4, 1939, nonrecording gage at site 0.5 mi (0.8 km) upstream at datum 2.8 ft (0.85 m) lower.

REMARKS.--Records good except those for period of no gage-height record, Jan. 3 to Feb. 10, which are poor. Wayne City municipal water plant diverts about 0.02 ft³/s (0.001 m³/s) at gage since November 1954; diversion not included in records. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--60 years, 388 ft³/s (10.99 m³/s), 11.36 in/yr (289 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 51,000 ft³/s (1,440 m³/s) May 9, 1961; maximum gage height, 26.68 ft (8.132 m) May 8, 1961; no flow at times during 1908, 1934, 1936-37, 1940, 1944, 1954, 1963-64, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,800 ft³/s (79 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Feb. 27	1300	2870	81.3	11.07	3.374	Mar. 29	2330	*13600	385	*20.48	6.242

Minimum daily discharge, 1.0 ft³/s (0.028 m³/s) Jan. 31 to Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	25	7.1	2.1	1.0	580	2910	110	3.9	158	41	128
2	7.9	20	6.3	2.0	1.0	281	574	69	3.4	100	18	70
3	6.6	14	5.7	1.8	1.0	228	1240	51	2.9	52	11	43
4	7.1	10	5.3	1.7	1.0	1330	492	44	2.9	32	7.9	30
5	7.2	7.6	5.1	1.6	1.0	1180	316	51	2.9	20	6.0	23
6	7.3	6.0	5.4	1.5	1.0	683	217	78	2.5	15	5.5	19
7	7.6	4.9	6.2	1.5	1.0	303	149	209	2.1	11	4.9	15
8	7.9	4.6	5.7	1.5	1.0	171	115	610	1.8	8.6	3.9	14
9	7.6	4.3	5.7	1.5	1.0	117	89	303	2.5	7.3	5.5	12
10	7.6	3.9	6.5	1.5	6.7	89	72	137	3.4	8.6	15	14
11	8.2	2.7	7.5	1.4	51	76	63	78	3.4	244	146	16
12	9.1	2.4	8.5	1.4	334	1360	54	54	2.9	683	174	14
13	8.6	3.2	6.2	1.4	672	2540	48	41	3.4	942	252	12
14	7.8	3.9	5.6	1.4	700	1890	43	33	3.4	414	420	11
15	7.6	3.7	5.2	1.4	400	927	40	29	3.9	102	368	9.2
16	7.6	3.7	5.0	1.3	200	260	37	25	4.4	44	110	9.2
17	7.8	3.8	5.5	1.3	120	149	34	22	4.4	28	49	9.2
18	6.9	3.6	6.0	1.3	80	268	32	20	3.9	19	32	9.9
19	6.9	3.4	6.5	1.3	72	378	32	17	3.9	15	22	11
20	7.3	3.5	7.0	1.3	67	256	29	15	4.4	12	16	9.9
21	7.5	3.7	5.0	1.2	67	217	29	14	3.9	9.9	14	9.9
22	7.5	3.9	4.4	1.2	67	165	102	14	5.5	11	24	8.6
23	10	4.4	4.7	1.2	63	123	228	12	7.9	41	83	11
24	11	4.9	4.2	1.2	165	102	646	11	29	19	1480	21
25	15	5.0	4.3	1.2	354	83	378	9.9	188	32	610	56
26	8.0	5.8	3.6	1.1	610	69	152	9.2	134	76	192	140
27	11	5.7	3.4	1.1	2620	610	89	8.6	67	56	85	89
28	13	6.0	3.3	1.1	1590	5040	91	7.9	452	34	46	56
29	10	7.4	3.3	1.1	---	11400	112	7.3	880	24	916	34
30	11	7.9	3.1	1.1	---	10500	192	6.7	463	18	1200	23
31	32	---	2.5	1.0	---	6090	---	4.9	---	19	298	---
TOTAL	290.6	188.9	163.8	42.7	8247.7	47465	8605	2101.5	2296.6	3255.4	6655.7	927.9
MEAN	9.37	6.30	5.28	1.38	295	1531	287	67.8	76.6	105	215	30.9
MAX	32	25	8.5	2.1	2620	11400	2910	610	880	942	1480	140
MIN	6.6	2.4	2.5	1.0	1.0	69	29	4.9	1.8	7.3	3.9	8.6
CFSM	.02	.01	.01	.003	.64	3.30	.62	.15	.17	.23	.46	.07
IN.	.02	.02	.01	.00	.66	3.81	.69	.17	.18	.26	.53	.07

CAL YR 1976 TOTAL 40341.42 MEAN 110 MAX 1910 MIN .82 CFSM .24 IN 3.23
WTR YR 1977 TOTAL 80240.80 MEAN 220 MAX 11400 MIN 1.0 CFSM .47 IN 6.43

03381000 SKILLET FORK NEAR MILL SHOALS, IL

LOCATION.--Lat 38°13'47", long 88°20'51", in SW¼ sec.29, T.3 S., R.8 E., White County, Hydrologic Unit 05120115, on left bank at downstream side of bridge on U.S. Highway 45, 0.8 mi (1.3 km) south of Mill Shoals.

DRAINAGE AREA.--874 mi² (2,264 km²).

PERIOD OF RECORD.--October 1974 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 352.85 ft (107.549 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Seven miscellaneous discharge measurements made during the year. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 26.23 ft (7.995 m) Apr. 1, 1977; minimum, 1.34 ft (0.408 m) Sept. 22, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 26.23 ft (7.995 m) Apr. 1; minimum recorded, 1.40 ft (0.427 m) Nov. 25.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.94	3.26	1.65	1.78	2.05	15.35	25.90	---	1.72	13.78	2.42	7.99
2	1.79	2.91	1.61	1.88	2.02	10.91	25.59	---	1.69	9.34	2.68	4.93
3	1.70	2.45	1.60	1.91	2.09	8.66	24.95	---	1.67	5.60	2.23	3.70
4	1.65	2.24	1.57	1.79	2.19	16.71	24.40	3.20	1.65	3.97	2.03	3.06
5	1.61	2.07	1.56	1.75	2.22	17.45	24.03	3.91	1.64	3.19	1.93	2.76
6	1.63	1.92	1.56	1.73	2.27	15.29	23.41	4.50	1.62	2.79	1.86	2.56
7	1.59	1.77	1.60	1.72	2.26	11.70	22.74	5.09	1.60	2.53	1.85	2.33
8	1.57	1.70	1.61	1.72	2.22	8.08	22.00	8.12	1.59	2.35	1.79	2.06
9	1.59	1.64	1.61	1.76	2.17	5.84	---	8.04	1.62	2.18	1.82	1.97
10	1.61	1.58	1.59	1.71	2.18	4.55	---	5.68	1.63	4.81	2.97	1.91
11	1.59	1.52	1.72	1.71	2.35	3.98	---	4.38	1.63	8.13	3.10	1.86
12	1.59	1.50	1.74	1.79	7.35	10.87	---	3.47	1.65	11.42	---	1.90
13	1.64	1.48	1.66	1.77	12.44	18.01	---	3.06	1.63	11.71	---	1.89
14	1.64	1.47	1.74	1.80	12.65	17.92	---	2.81	1.63	10.23	---	1.95
15	1.60	1.45	1.71	1.82	10.58	16.26	---	2.62	1.62	6.60	---	1.82
16	1.59	1.45	1.66	1.91	7.97	11.97	---	2.49	1.62	4.14	---	1.79
17	1.57	1.50	1.66	1.92	6.65	7.57	---	2.35	1.64	3.02	---	1.75
18	1.57	1.54	1.64	1.83	5.23	8.02	---	2.28	1.62	2.56	---	1.73
19	1.60	1.56	1.64	1.82	4.64	9.49	---	2.19	1.61	3.07	2.57	1.73
20	1.61	1.55	1.58	1.92	4.02	7.53	---	2.14	1.62	3.99	2.29	1.72
21	1.57	1.49	1.57	1.97	3.70	6.53	2.96	2.08	1.59	2.42	2.15	1.70
22	1.59	1.49	1.63	1.99	3.41	5.75	---	2.06	1.74	2.16	2.20	1.70
23	1.71	1.47	---	2.02	4.15	5.06	---	2.01	1.90	2.36	2.63	1.69
24	3.84	1.46	---	2.08	7.85	4.47	---	2.01	3.28	2.54	9.15	1.86
25	3.24	1.50	---	2.11	6.93	4.11	---	2.01	5.35	3.21	12.70	2.32
26	2.59	1.70	---	2.17	6.93	3.81	---	1.96	6.28	4.16	8.45	3.20
27	2.09	1.73	---	2.19	15.90	7.70	---	1.90	13.88	3.55	4.97	4.22
28	2.02	1.59	---	2.24	17.64	22.71	---	1.86	18.42	2.82	3.76	3.41
29	2.01	1.56	---	2.23	---	24.26	---	1.83	18.79	2.47	8.56	2.72
30	2.15	1.57	1.60	2.15	---	25.29	---	1.82	17.37	2.30	15.29	2.34
31	2.89	---	1.61	2.10	---	25.85	---	1.77	---	2.16	12.91	---
MEAN	1.88	1.74	---	1.91	5.79	11.67	---	---	4.04	4.70	---	2.55
MAX	3.84	3.26	---	2.24	17.64	25.85	---	---	18.79	13.78	---	7.99
MIN	1.57	1.45	---	1.71	2.02	3.81	---	---	1.59	2.16	---	1.69

03381500 LITTLE WABASH RIVER AT CARMI, IL

LOCATION.--Lat 38°03' ", long 88°09'35", near center of E½ sec.25, T.5 S., R.9 E., White County, Hydrologic Unit 05120114, on right b k at upstream side of Possum Bridge, 2.3 mi (3.7 km) south of Main Street Bridge in Carmi and 7.8 mi (12.6 km) ownstream from Skillet Fork.

DRAINAGE AREA.--3,102 mi² (8,034 km²).

PERIOD OF RECORD.--October 1908 to December 1912 (gage heights only), October 1939 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 339.91 ft (103.605 m) above mean sea level. Prior to December 1912, nonrecording gage at site 3.1 mi (5.0 km) upstream at datum 0.4 ft (0.1 m) higher. Oct. 1 to Nov. 9, 1939, nonrecording gage at present site and datum. Since Nov. 14, 1939, auxiliary water-stage recorder 3.1 mi (5.0 km) upstream.

REMARKS.--Records good. There was no diversion through McHenry Slough during the year. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--38 years, 2,467 ft³/s (69.87 m³/s), 10.80 in/yr (274 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,900 ft³/s (1,330 m³/s) May 12, 1961; maximum gage height, 36.70 ft (11.186 m) May 13, 1961; no flow Sept. 16-17, 1952, result of temporary dam upstream; minimum unregulated discharge, 0.6 ft³/s (0.017 m³/s) Sept. 9, 1953, July 31, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,900 ft³/s (394 m³/s) Apr. 4, gage height, 28.86 ft (8.797 m); maximum gage height, 29.05 ft (8.854 m) Apr. 5; minimum discharge, 26 ft³/s (0.74 m³/s) Jan. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	319	44	29	30	5180	12500	1030	66	4700	308	3950
2	75	271	44	26	29	4700	13100	803	59	2860	207	3180
3	72	204	43	27	30	4270	13600	596	55	1300	165	2280
4	61	169	43	28	32	5980	13800	510	52	720	117	1360
5	51	150	44	30	34	6480	13800	510	49	526	88	706
6	54	128	43	30	34	6060	13600	648	45	450	67	484
7	45	121	47	31	34	5230	13300	1020	37	370	56	414
8	40	112	44	30	32	4190	12800	1140	32	290	63	352
9	39	107	42	35	34	3230	12100	1170	39	240	66	207
10	38	99	44	38	39	2080	11300	943	41	210	100	152
11	35	86	55	35	59	1220	10300	995	43	400	166	114
12	34	70	54	32	257	1890	9160	961	43	1000	272	98
13	54	61	54	30	1330	4070	7760	721	43	4130	555	105
14	77	55	51	35	2120	4970	5960	506	40	4290	1170	113
15	87	50	47	35	2160	5250	3800	352	37	3820	1910	102
16	74	46	46	31	1960	4920	1720	289	37	2810	2580	102
17	59	41	45	30	1820	4040	721	246	75	1510	2780	96
18	48	40	43	30	1760	3890	434	202	79	638	2640	123
19	45	39	41	29	1670	3740	378	180	66	329	1920	234
20	48	38	40	28	1380	2730	357	162	56	463	760	231
21	60	37	39	29	970	1800	340	148	51	294	325	189
22	36	35	37	28	663	1360	361	133	54	178	182	154
23	101	32	37	28	698	1060	910	124	63	118	147	125
24	394	31	36	30	1590	843	1750	114	142	110	904	220
25	376	30	36	30	1570	693	2400	108	320	136	2580	368
26	198	49	36	31	1300	582	1940	105	503	219	3030	598
27	113	65	36	31	3090	1190	1230	95	2010	218	2720	807
28	74	69	36	31	4810	8930	1050	87	3190	216	2560	960
29	76	59	37	30	---	10000	1040	88	5390	297	2430	802
30	265	68	35	31	---	11200	981	82	5170	525	3300	602
31	355	---	32	30	---	11700	---	75	---	440	4150	---
TOTAL	3141	2659	1311	948	29535	133478	182492	14143	17887	33807	38318	19228
MEAN	101	88.6	42.3	30.6	1055	4306	6083	456	596	1091	1236	641
MAX	394	319	55	38	4810	11700	13800	1170	5390	4700	4150	3950
MIN	34	30	32	26	29	582	340	75	32	110	56	96
CFSM	.03	.03	.01	.01	.34	1.39	1.96	.15	.19	.35	.40	.21
IN.	.06	.03	.02	.01	.35	1.60	2.19	.17	.21	.41	.46	.23

CAL YR 1976 TOTAL 350990 MEAN 959 MAX 7420 MIN 12 CFSM .31 IN 4.21
WTR YR 1977 TOTAL 476947 MEAN 1307 MAX 13800 MIN 26 CFSM .42 IN 5.72

03381700 OHIO RIVER AT OLD SHAWNEETOWN, IL

LOCATION.--Lat 37°41'15", long 88°08'20", in NE¼ sec.6, T.10 S., R.10 E., Gallatin County, Hydrologic Unit 05140203, near right bank on upstream corner of permanent floating barge at Peabody Coal Co. coal loading dock, 2,200 ft (671 m) downstream from State Highway 13 bridge and at mile 858.6 (1,381.5 km).

DRAINAGE AREA.--Not determined.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: April 1975 to September 1977 (discontinued).

INSTRUMENTATION.--Temperature recorder since April 1975.

REMARKS.--Records represent temperature at monitor probe within 0.5°C. Temperature at the sensor was compared with the average for the river by temperature cross-section on May 24. Clock stopped Nov. 1 to Dec. 2.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 33.0°C July 18-20, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 33.0°C July 18-20; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.5	21.5	22.0				---	---	---	0.5	0.5	0.5
2	22.5	21.5	22.0				---	---	---	0.5	0.0	0.0
3	23.0	22.0	22.5				4.5	4.0	4.5	0.5	0.0	0.0
4	23.0	22.0	22.5				4.5	4.0	4.5	0.5	0.0	0.5
5	22.0	22.0	22.0				4.5	4.0	4.0	0.5	0.5	0.5
6	22.0	21.0	21.0				4.5	4.0	4.0	0.5	0.5	0.5
7	20.5	19.5	20.0				4.5	3.5	4.0	1.0	0.5	0.5
8	20.0	19.0	19.5				4.0	3.5	3.5	1.0	0.0	0.5
9	19.0	18.5	19.0				4.5	3.5	4.0	1.0	0.0	0.5
10	19.0	18.0	18.5				4.5	4.0	4.5	0.5	0.0	0.5
11	19.0	18.0	18.5				4.5	4.5	4.5	0.5	0.0	0.5
12	19.5	18.5	19.0				4.5	4.0	4.5	0.5	0.0	0.0
13	20.0	19.0	19.5				4.5	3.5	4.0	0.5	0.0	0.5
14	19.0	18.5	19.0				4.0	3.5	3.5	0.5	0.0	0.5
15	18.5	18.0	18.5				4.0	3.5	4.0	0.5	0.5	0.5
16	18.0	17.0	17.5				4.0	4.0	4.0	0.5	0.5	0.5
17	17.0	15.5	16.5				4.5	3.5	4.0	0.5	0.5	0.5
18	15.5	15.0	15.5				4.5	4.0	4.0	0.5	0.5	0.5
19	15.0	14.5	14.5				5.0	4.0	4.5	0.5	0.5	0.5
20	14.5	13.5	14.0				5.0	3.5	4.5	0.5	0.5	0.5
21	13.5	13.0	13.5				3.5	2.5	3.0	0.5	0.5	0.5
22	13.5	13.0	13.0				2.5	2.0	2.0	0.5	0.5	0.5
23	13.5	13.0	13.0				2.0	1.5	2.0	0.5	0.5	0.5
24	13.0	13.0	13.0				2.0	1.5	1.5	0.5	0.5	0.5
25	13.0	13.0	13.0				2.0	1.5	2.0	0.5	0.5	0.5
26	13.0	12.5	13.0				2.0	1.5	1.5	0.5	0.5	0.5
27	12.5	12.0	12.5				2.5	1.5	2.0	1.0	0.5	0.5
28	12.5	12.0	12.0				2.0	2.0	2.0	0.5	0.5	0.5
29	12.0	12.0	12.0				2.0	1.5	1.5	1.0	0.5	0.5
30	12.0	11.5	12.0				1.5	1.0	1.0	1.0	0.5	0.5
31	11.5	11.5	11.5				1.0	0.5	0.5	1.0	0.5	0.5
MONTH	23.0	11.5	17.0				5.0	0.5	3.0	1.0	0.0	0.5

03381700 OHIO RIVER AT OLD SHAWNEETOWN, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	0.5	1.0	5.0	5.0	5.0	14.0	13.5	14.0	18.0	17.0	17.5
2	1.0	0.5	1.0	5.0	4.5	4.5	14.5	14.0	14.5	18.5	17.5	18.0
3	1.0	0.5	1.0	5.0	4.5	5.0	14.5	14.0	14.0	18.5	18.0	18.0
4	1.0	0.5	1.0	6.0	5.0	5.5	14.0	13.5	13.5	19.0	18.0	18.5
5	1.0	1.0	1.0	6.5	5.5	6.0	13.5	12.5	13.0	19.5	18.5	19.0
6	1.0	1.0	1.0	6.5	6.0	6.0	12.5	12.0	12.0	20.5	19.5	20.0
7	1.0	1.0	1.0	7.0	6.5	6.5	12.5	12.0	12.0	20.5	20.0	20.5
8	1.0	1.0	1.0	7.5	6.5	7.0	13.0	12.0	12.5	21.5	20.5	21.0
9	1.5	1.0	1.5	7.5	7.0	7.5	12.5	12.0	12.5	21.5	20.5	21.0
10	1.5	1.0	1.5	8.5	7.5	8.0	13.0	12.5	13.0	20.5	20.0	20.5
11	2.0	1.0	1.5	9.0	8.0	8.5	14.0	13.0	13.5	20.5	19.5	20.0
12	1.5	1.0	1.5	10.0	9.0	9.5	14.5	13.5	14.0	20.0	19.5	20.0
13	2.0	1.0	1.0	10.0	9.5	10.0	15.0	14.0	14.5	20.5	19.5	20.0
14	2.0	1.0	1.5	10.5	10.0	10.0	15.0	14.5	14.5	21.0	20.0	20.5
15	2.0	1.5	1.5	11.5	10.5	10.5	15.5	15.0	15.0	22.0	20.5	21.0
16	1.5	1.0	1.5	11.5	10.5	11.0	16.5	15.5	16.0	22.5	21.0	22.0
17	2.0	1.0	1.5	11.0	11.0	11.0	17.0	16.0	16.5	23.5	22.0	22.5
18	2.0	1.5	1.5	11.5	11.0	11.0	17.5	16.5	17.0	24.0	22.5	23.5
19	2.5	2.0	2.5	11.0	10.5	11.0	18.5	17.5	18.0	24.5	23.5	24.0
20	2.5	2.5	2.5	11.0	10.0	10.5	19.0	18.5	18.5	25.0	24.0	24.5
21	3.5	2.5	3.0	11.0	10.5	10.5	19.0	18.5	19.0	25.5	24.5	25.0
22	4.5	3.0	4.0	11.0	10.0	10.5	19.0	18.5	18.5	25.5	24.5	25.0
23	5.5	4.5	5.5	10.5	10.0	10.0	19.0	18.0	18.5	25.0	24.5	25.0
24	6.5	5.5	6.0	10.0	9.5	10.0	18.5	18.0	18.0	25.5	24.5	24.5
25	6.0	5.5	5.5	10.5	9.5	10.0	18.0	17.5	18.0	25.5	24.5	25.0
26	5.5	5.0	5.0	11.0	10.0	10.5	18.0	16.5	17.5	26.0	25.0	25.5
27	5.5	5.0	5.0	11.0	10.5	11.0	18.0	17.0	17.5	26.5	25.5	26.0
28	5.5	5.0	5.0	12.0	11.0	11.5	18.0	17.0	17.5	27.0	26.0	26.5
29	---	---	---	13.0	11.5	12.0	17.5	17.0	17.5	26.5	25.5	26.0
30	---	---	---	14.0	13.0	13.5	17.5	17.0	17.0	27.0	26.0	26.5
31	---	---	---	14.0	13.5	14.0	---	---	---	27.0	26.5	27.0
MONTH	6.5	0.5	2.5	14.0	4.5	9.5	19.0	12.0	15.5	27.0	17.0	22.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	27.0	25.5	26.5	28.0	26.5	27.0	29.5	29.0	29.0	27.0	26.5	27.0
2	27.0	25.5	26.5	28.5	26.5	27.5	29.5	28.5	29.0	28.0	26.5	27.0
3	27.0	26.0	26.5	29.0	27.5	28.0	29.5	29.0	29.0	28.5	27.0	28.0
4	27.5	26.0	26.5	29.5	28.0	28.5	29.5	29.0	29.0	29.0	28.0	28.5
5	27.5	26.5	27.0	30.0	29.0	29.5	29.5	29.0	29.0	29.0	28.5	29.0
6	27.5	26.5	27.0	30.5	29.5	30.0	29.5	29.0	29.5	29.0	28.0	28.5
7	26.0	25.0	25.5	31.0	30.0	30.5	30.0	29.5	29.5	28.0	27.5	28.0
8	25.0	24.5	24.5	31.5	30.5	31.0	30.5	29.0	29.5	28.5	27.5	28.0
9	25.0	24.0	24.5	31.0	30.5	31.0	29.5	28.5	29.0	28.5	27.5	28.0
10	25.0	24.0	24.5	31.0	30.0	30.5	29.0	28.5	28.5	28.0	27.0	27.5
11	25.5	24.0	25.0	30.5	29.5	30.0	29.0	28.0	28.5	27.0	26.5	26.5
12	26.0	25.0	25.5	30.0	29.0	29.5	29.0	27.5	28.0	26.5	26.0	26.0
13	26.0	25.5	25.5	30.5	29.5	30.0	28.0	27.0	27.5	25.5	25.0	25.5
14	26.0	25.0	25.5	31.0	29.5	30.0	28.5	27.0	27.5	25.0	24.5	24.5
15	26.5	25.5	26.0	32.0	30.0	31.0	28.5	27.5	28.0	24.5	24.0	24.5
16	27.0	26.0	26.5	32.0	31.0	31.5	28.5	27.5	28.0	25.0	24.5	24.5
17	27.5	26.5	27.0	32.5	31.0	32.0	27.5	27.0	27.0	25.5	24.5	25.0
18	27.5	26.5	27.0	33.0	32.0	32.5	26.5	26.0	26.5	25.0	24.5	25.0
19	28.0	27.0	27.5	33.0	32.0	32.5	26.5	25.5	26.0	25.0	24.0	24.5
20	28.0	27.0	27.5	33.0	32.5	32.5	26.5	25.5	26.0	24.0	23.5	23.5
21	28.0	26.5	27.5	32.5	32.0	32.0	26.5	25.5	26.0	23.5	23.0	23.5
22	27.5	27.5	27.5	32.0	31.5	32.0	27.0	25.5	26.0	24.0	23.0	23.5
23	28.0	27.0	27.5	31.5	31.0	31.5	26.5	26.0	26.0	24.0	23.5	23.5
24	28.0	27.0	27.5	31.5	30.5	31.0	26.0	25.5	25.5	24.0	23.5	23.5
25	27.5	27.0	27.0	30.5	30.0	30.5	25.5	24.5	25.0	24.0	23.0	23.5
26	28.0	27.0	27.5	30.0	29.0	29.5	25.5	24.5	25.0	24.0	23.0	23.5
27	28.0	27.5	27.5	29.0	28.5	29.0	26.0	25.0	25.5	24.0	23.5	23.5
28	27.5	27.0	27.0	29.0	28.0	28.5	26.5	25.5	26.0	24.0	23.0	23.5
29	28.0	26.5	27.0	29.5	28.0	28.5	26.0	25.5	26.0	23.5	23.0	23.5
30	28.0	26.5	27.0	29.5	28.5	29.0	27.0	25.5	26.0	23.0	23.0	23.0
31	---	---	---	29.5	28.5	29.0	27.5	26.0	26.5	---	---	---
MONTH	28.0	24.0	26.5	33.0	26.5	30.0	30.5	24.5	27.5	29.0	23.0	25.5
YEAR	33.0	0.0	16.5									

03382100 SOUTH FORK SALINE RIVER NEAR CARRIER MILLS, IL

LOCATION.--Lat 37°38'16", long 88°40'40", in SW¼NE¼ sec.20, T.10 S., R.5 E., Saline County, Hydrologic Unit 05140204, on right bank at downstream side of bridge on U.S. Highway 45, 150 ft (46 m) downstream from Penn Central Railroad bridge and 4.5 mi (7.2 km) southwest of Carrier Mills.

DRAINAGE AREA.--147 mi² (381 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 375.63 ft (114.492 m) above mean sea level Prior to Oct. 31, 1967, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--12 years, 153 ft³/s (4.333 m³/s), 14.13 in/yr (359 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,860 ft³/s (138 m³/s) Mar. 29, 1977, gage height, 16.18 ft (4.932 m); minimum daily, 0.6 ft³/s (0.017 m³/s) July 29, 30, Sept. 3, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,860 ft³/s (138 m³/s) Mar. 29, gage height, 16.18 ft (4.932 m); minimum, 1.7 ft³/s (0.048 m³/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	17	7.6	5.5	8.0	67	924	50	7.2	24	5.4	16
2	1.9	16	6.6	5.0	7.0	58	703	46	11	16	3.6	9.8
3	2.1	12	8.3	5.0	7.0	170	1060	48	18	9.6	5.7	7.9
4	3.4	10	12	4.5	6.5	1240	832	50	17	4.7	6.2	8.9
5	2.9	8.7	12	4.5	6.5	720	410	55	14	3.0	6.2	12
6	9.5	7.6	13	4.0	6.0	202	237	50	10	2.4	5.6	17
7	15	6.6	11	4.0	6.0	100	169	60	7.9	6.6	4.4	9.5
8	12	5.7	7.7	4.0	6.0	72	138	120	6.6	17	5.0	6.9
9	9.6	7.3	5.4	4.0	10	65	113	90	5.0	11	9.6	5.7
10	7.3	6.5	5.4	4.0	23	68	100	80	4.4	4.9	8.4	5.0
11	6.3	6.2	11	3.8	64	53	93	55	10	4.6	13	4.8
12	5.7	5.9	11	3.8	113	450	83	45	8.2	2.7	8.6	4.6
13	4.4	5.6	9.2	3.8	128	637	73	35	6.0	4.9	17	6.5
14	3.7	4.5	7.1	3.8	90	352	70	30	5.0	6.4	13	65
15	3.4	3.7	6.6	3.8	54	170	61	26	4.8	7.5	11	77
16	3.0	4.0	5.7	5.0	44	118	53	23	4.6	7.8	10	31
17	2.8	5.4	5.7	10	28	90	51	20	4.4	6.5	66	15
18	2.7	5.3	7.6	25	21	160	51	18	3.9	3.7	75	8.1
19	3.2	5.3	10	42	19	181	51	16	3.5	4.3	24	258
20	4.2	5.3	8.1	46	16	117	57	14	3.4	4.7	14	190
21	3.4	5.2	6.1	34	16	92	66	12	3.2	5.3	10	55
22	2.7	5.5	5.7	28	16	80	177	11	4.2	6.1	9.3	29
23	11	8.7	10	25	69	61	771	15	6.3	4.7	7.7	19
24	23	10	[illegible]	21	444	53	685	11	11	4.5	6.5	80
25	30	9.1	[illegible]	18	134	43	314	9.0	15	27	5.8	50
26	11	11	[illegible]	16	81	38	164	8.0	10	24	5.4	30
27	10	12	[illegible]	14	189	239	115	7.0	21	15	5.0	40
28	6.3	9.7	10	12	113	2920	95	9.0	22	9.1	5.0	30
29	4.6	12	8.0	11	---	4690	81	12	24	6.6	15	22
30	9.2	9.0	7.0	10	---	3810	62	11	34	6.6	22	15
31	16	---	6.0	9.0	---	2390	---	7.8	---	8.9	24	---
TOTAL	232.8	240.8	254.8	389.5	1725.0	19506	7859	1043.8	305.6	270.1	427.4	1128.7
MEAN	7.51	8.03	8.22	12.6	61.6	629	262	33.7	10.2	8.71	13.8	37.6
MAX	30	17	13	46	444	4690	1060	120	34	27	75	258
MIN	1.9	3.7	5.4	3.8	6.0	38	51	7.0	3.2	2.4	3.6	4.6
CFSM	.05	.06	.06	.09	.42	4.28	1.78	.23	.07	.06	.09	.26
IN.	.06	.06	.06	.10	.44	4.94	1.99	.26	.08	.07	.11	.29

CAL YR 1976 TOTAL 31979.5 MEAN 87.4 MAX 1760 MIN 1.4 CFSM .60 IN 8.09
WTR YR 1977 TOTAL 33383.5 MEAN 91.5 MAX 4690 MIN 1.9 CFSM .62 IN 8.45

03382100 SOUTH FORK SALINE RIVER NEAR CARRIER MILLS, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to September 1977.

COOPERATION.--Most of the chemical data were furnished by Illinois State Water Survey and were reviewed by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)
OCT												
27...	1000	11	1480	3.4	9.0	10.0	19	9.6	723	--	--	292
NOV												
18...	1245	4.9	2250	4.0	20.0	7.5	4.0	10.2	1432	--	--	227
DEC												
10...	1100	5.5	1700	3.8	11.0	2.5	46	13.6	936	--	--	458
JAN												
12...	1430	3.8	1490	3.9	-10.0	.0	72	7.4	516	--	--	412
FEB												
03...	1430	7.0	1360	3.5	8.0	1.0	48	--	512	--	--	306
MAR												
03...	1230	55	1040	4.9	12.0	6.5	43	--	562	--	--	64
29...	1400	4710	220	6.0	27.0	15.5	95	7.3	72	59	--	--
MAY												
05...	1500	55	1130	4.0	26.0	22.0	18	--	588	--	--	90
JUN												
09...	1315	4.9	3000	4.1	24.0	24.5	2.0	7.6	2002	--	--	164
JUL												
01...	1240	24	880	3.9	31.5	26.5	4.0	8.5	374	370	1.0	50
AUG												
11...	1300	12	2400	2.9	31.0	30.0	4.0	--	772	--	--	1000
26...	1130	6.5	1400	3.8	--	26.5	--	8.7	--	--	1.7	84
SEP												
14...	1345	89	1140	3.1	19.0	20.0	16	8.8	384	--	--	300

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT												
27...	180	66	16	5	.3	9.2	--	--	--	--	928	13
NOV												
18...	358	131	25	4	.3	7.4	--	--	--	--	1590	10
DEC												
10...	230	91	23	5	.3	8.8	--	--	--	--	1203	10
JAN												
12...	111	58	21	8	.4	8.6	--	--	--	--	864	10
FEB												
03...	114	55	24	9	.5	8.4	--	--	--	--	783	13
MAR												
03...	136	54	35	12	.6	4.5	--	--	--	--	614	17
29...	21	4.5	6.0	15	.3	3.1	16	0	8	26	88	2.0
MAY												
05...	147	53	23	8	.4	3.9	--	--	--	--	672	11
JUN												
09...	608	118	21	2	.2	5.1	--	--	--	--	2064	12
JUL												
01...	90	36	17	9	.4	6.3	0	0	0	.0	432	10
AUG												
11...	186	74	14	4	.2	6.8	--	--	--	--	1593	8.0
26...	--	--	--	--	--	--	0	0	0	.0	760	5.3
SEP												
14...	90	38	14	7	.3	7.3	--	--	--	--	601	10

03382100 SOUTH FORK SALINE RIVER NEAR CARRIER MILLS, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)
OCT												
27...	.8	16	1333	--	1.81	39.6	19	.20	.90	1.1	1.5	.00
NOV												
18...	.7	6.9	2251	--	3.06	29.8	13	.00	.00	3.0	3.9	.00
DEC												
10...	1.1	12	1741	--	2.37	25.9	43	.06	.30	1.2	1.6	.00
JAN												
12...	1.2	24	1244	--	1.69	12.8	54	.00	.00	.46	.60	.00
FEB												
03...	1.1	19	1136	--	1.54	21.5	34	.11	.50	.77	1.0	.00
MAR												
03...	.4	13	900	--	1.22	134	28	.45	2.0	1.0	1.3	.00
29...	.1	5.0	158	142	.21	2010	137	.40	1.8	.07	.10	.06
MAY												
05...	.3	10	978	--	1.33	146	14	.13	.60	1.0	1.4	.00
JUN												
09...	.5	4.1	3059	--	4.16	40.6	4	.33	1.5	3.7	4.8	.00
JUL												
01...	.3	7.1	626	612	.85	41.2	2	.56	2.5	.31	.40	.00
AUG												
11...	1.9	26	2257	--	3.07	73.7	9	.27	1.2	1.5	2.0	.00
26...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
14...	1.0	12	830	--	1.13	200	28	.15	.70	.38	.50	.00

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
OCT												
27...	.00	.00	13000	--	<100	600	10	0	20	13000	13000	<50
NOV												
18...	.00	.00	3000	--	<100	300	10	0	20	4000	3600	<50
DEC												
10...	.00	.00	20000	--	<100	600	10	0	10	28400	28300	<50
JAN												
12...	.00	.00	30000	--	<100	600	20	0	20	46000	44000	<50
FEB												
03...	.00	.00	22000	--	<100	500	20	0	0	31200	30600	<50
MAR												
03...	.00	.00	2000	--	<100	--	0	0	0	11000	10300	<50
29...	.00	.00	<200	0	<100	100	0	0	0	5100	420	<50
MAY												
05...	.00	.00	8000	--	<100	100	0	0	10	3800	2700	<50
JUN												
09...	.00	.00	8000	--	<100	200	10	0	10	900	740	<50
JUL												
01...	.00	.00	3000	2	<100	300	0	0	10	1200	630	<50
AUG												
11...	.00	.00	92000	--	<100	400	40	10	110	46000	46000	<50
26...	--	--	10000	0	--	--	--	2	11	--	12000	--
SEP												
14...	.00	.00	25000	--	<100	400	100	0	30	7600	5400	<50

03382100 SOUTH FORK SALINE RIVER NEAR CARRIER MILLS, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DISSOLVED LITHIUM (LI) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT								
27...	100	10300	10100	--	200	290	610	--
NOV								
18...	130	13720	13700	--	140	440	250	--
DEC								
10...	110	13350	13300	--	280	340	700	--
JAN								
12...	90	10950	10900	--	340	280	900	--
FEB								
03...	80	9510	9360	--	280	250	830	--
MAR								
03...	40	5700	5700	--	<50	220	280	--
29...	0	870	780	<.5	<50	90	30	5.4
MAY								
05...	30	6950	6800	--	110	230	260	--
JUN								
09...	120	10140	9800	--	160	410	250	--
JUL								
01...	30	3910	3810	.0	120	240	230	5.4
AUG								
11...	120	21800	21000	--	630	250	2100	--
26...	--	--	5200	.0	--	--	240	8.1
SEP								
14...	50	8280	7620	--	200	300	620	--

03382170 BRUSHY CREEK NEAR HARCO, IL

LOCATION.--Lat 37°46'30", long 88°39'08", in NW¼NW¼ sec.3, T.9 S., R.5 E., Saline County, Hydrologic Unit 05140204, on right bank at upstream side of county highway bridge, 1.4 mi (2.3 km) south of Harco.

DRAINAGE AREA.--13.3 mi² (34.4 km²).

PERIOD OF RECORD.--July 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 385.41 ft (117.473 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--9 years, 13.8 ft³/s (0.391 m³/s), 14.09 in/yr (358 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,590 ft³/s (73.3 m³/s) Mar. 28, 1977, gage height, 14.78 ft (4.505 m); no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (20 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 3	1930	788	22.3	9.12	2.780	Sept. 19	0630	1270	36.0	10.69	3.258
Mar. 28	0415	*2590	73.3	*14.78	4.505						

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.84	.00	.00	.00	2.7	10	.57	.00	.12	.68	3.5
2	.00	.18	.01	.00	.00	1.6	35	.39	.00	.02	.02	1.5
3	.00	.06	.01	.00	.10	201	17	.81	.00	.00	.02	4.3
4	.00	.04	.01	.00	.10	99	12	1.4	.00	.00	.01	4.9
5	.00	.03	.01	.00	.10	32	11	.73	.00	.00	.00	.29
6	.00	.02	.03	.00	.00	16	7.3	.45	.00	.08	.00	.12
7	.00	.02	.12	.00	.00	8.9	5.6	1.4	.00	.00	.00	.02
8	.00	.01	.05	.00	.00	6.1	4.4	.67	.00	.00	.26	.04
9	.00	.00	.01	.00	.00	4.8	3.7	.25	.00	.00	10	.14
10	.00	.00	.09	.00	.00	4.0	3.3	.11	.00	3.5	1.0	.01
11	.00	.00	.83	.00	.10	4.2	2.7	.11	.00	1.9	.09	.00
12	.00	.00	.41	.00	5.0	70	2.3	.09	.00	.07	.07	.00
13	.00	.00	.25	.00	25	24	2.0	.07	.00	.05	.06	28
14	.00	.00	.09	.00	13	12	1.7	.06	.00	.04	.05	14
15	.00	.00	.14	.00	7.6	5.9	1.4	.05	.00	.02	.02	2.8
16	.00	.00	.22	.00	4.5	3.9	1.1	.03	.00	.02	.00	.32
17	.00	.00	.16	.00	3.7	3.3	.89	.01	.00	.01	.02	.16
18	.00	.00	.10	.00	3.0	14	.68	.00	.00	.01	.02	.07
19	.00	.00	.13	.00	2.5	6.3	1.1	.00	.00	.00	.00	391
20	.00	.00	.23	.00	2.0	5.4	1.2	.00	.00	.00	.00	17
21	.00	.00	.11	.00	1.5	3.9	1.1	.00	.00	.00	.06	4.7
22	.00	.00	.04	.00	1.0	3.2	7.8	.00	.00	.00	.16	2.3
23	3.6	.00	.05	.00	50	2.4	34	.00	.00	.00	.02	1.3
24	8.4	.00	.03	.00	26	2.1	11	.00	.00	.00	.00	52
25	1.0	.00	.06	.00	4.6	1.9	5.0	.00	.00	.00	.00	16
26	.21	.22	.09	.00	11	1.7	3.0	.00	.00	.00	.00	5.9
27	.04	.22	.10	.00	18	364	2.0	.00	2.5	.00	.00	17
28	.00	.10	.16	.00	4.5	1200	1.6	.00	.42	.00	.00	5.3
29	.00	.04	.10	.00	---	45	1.0	.00	.23	.00	1.0	2.3
30	5.4	.00	.07	.00	---	22	.76	.00	.10	.00	.09	1.4
31	2.1	---	.02	.00	---	13	---	.00	---	5.5	.02	---
TOTAL	20.75	1.78	3.73	.00	181.30	2196.3	191.63	7.20	3.25	11.36	13.65	576.35
MEAN	.67	.059	.12	.000	6.48	70.8	6.39	.23	.11	.37	.44	19.2
MAX	8.4	.84	.83	.00	50	1200	35	1.4	2.5	5.5	10	391
MIN	.00	.00	.00	.00	.00	1.6	.68	.00	.00	.00	.00	.00
CFSM	.05	.004	.009	.000	.49	5.32	.48	.02	.008	.03	.03	1.44
IN.	.06	.00	.01	.00	.51	6.14	.54	.02	.01	.03	.04	1.61

CAL YR 1976 TOTAL 1934.74 MEAN 5.29 MAX 177 MIN .00 CFSM .40 IN 5.41
WTR YR 1977 TOTAL 3205.30 MEAN 8.78 MAX 1200 MIN .00 CFSM .66 IN 8.96

03382510 EAGLE CREEK NEAR EQUALITY, IL

LOCATION.--Lat 37°39'03", long 88°23'28", at east boundary of sec.14, T.10 S., R.7 E., Saline County, Hydrologic Unit 05140204, on right bank at upstream side of highway bridge, 5 mi (8 km) northeast of Herod and 6 mi (10 km) southwest of Equality.

DRAINAGE AREA.--8.51 mi² (22.04 km²).

PERIOD OF RECORD.--June 1966 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 391.34 ft (119.280 m) above mean sea level (levels by U.S. Department of Agriculture).

REMARKS.--Records good except those for winter periods, which are fair. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--11 years, 9.86 ft³/s (0.279 m³/s), 15.73 in/yr (400 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 668 ft³/s (18.9 m³/s) May 27, 1973, gage height, 11.25 ft (3.429 m); no flow at times in 1966, 1973-77.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.5 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 3	2300	358	10.1	7.55	2.301	Mar. 28	0215	*624	17.7	*10.76	3.280

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.18	.10	.10	.20	5.2	7.2	1.2	.02	1.2	.41	.14
2	.05	.12	.13	.10	.20	3.9	9.2	1.1	.00	.61	.12	.11
3	.05	.10	.12	.10	.20	101	8.1	1.9	.00	.27	.03	.08
4	.05	.09	.13	.10	.20	105	7.0	2.7	.00	.16	.00	.07
5	.05	.08	.12	.10	.20	18	8.0	2.0	.00	.12	.00	.07
6	.18	.07	.14	.10	.10	9.7	7.0	1.9	.00	.10	.00	.08
7	.11	.09	.23	.10	.10	7.0	6.0	3.4	.00	.05	.00	.06
8	.06	.10	.16	.10	.10	5.6	5.5	2.8	.00	.21	11	.04
9	.07	.12	.12	.10	.10	4.6	4.8	2.6	.00	.18	3.8	.01
10	.08	.12	.16	.10	.10	3.9	4.2	2.2	.00	.10	.90	.01
11	.07	.12	.34	.10	.10	3.4	3.6	1.9	.00	.12	.56	.00
12	.05	.12	.30	.10	.10	92	3.1	1.6	.00	.08	.51	.00
13	.06	.11	.23	.10	.10	19	2.7	1.3	.00	.03	2.2	14
14	.05	.13	.17	.10	.10	9.9	2.5	1.1	.00	.09	1.3	3.4
15	.05	.13	.20	.10	.10	7.2	2.3	.98	.00	.03	.66	2.6
16	.05	.12	.22	.10	.10	5.5	2.0	.81	.03	.00	5.6	1.6
17	.05	.12	.21	.10	.10	4.8	1.9	.65	.01	.00	5.2	1.2
18	.05	.13	.20	.10	.10	8.0	1.7	.56	.00	.00	1.4	.97
19	.09	.13	.20	2.0	.10	7.6	1.7	.49	.00	.00	.83	25
20	.42	.12	.22	1.2	.10	6.5	1.6	.43	.00	.00	.54	4.8
21	.20	.13	.15	.80	.10	5.4	1.5	.38	.00	.00	.41	2.7
22	.15	.13	.11	.60	.10	4.6	1.8	.34	.00	.00	.85	2.0
23	.81	.12	.13	.50	9.0	3.9	2.6	.30	.07	.00	.46	1.5
24	.72	.13	.12	.50	15	3.3	2.6	.28	.64	.67	.32	65
25	.25	.14	.17	.40	6.6	2.7	2.1	.23	.20	1.1	.25	10
26	.10	.31	.19	.30	7.2	2.4	1.9	.23	.15	.32	.20	5.0
27	.05	.31	.19	.20	14	54	1.8	.21	.43	.08	.17	6.2
28	.05	.20	.22	.20	7.5	366	1.6	.18	.70	.01	.13	3.4
29	.06	.14	.19	.20	---	34	1.5	.16	.44	.17	.30	2.6
30	.61	.09	.18	.20	---	15	1.4	.11	.23	.22	.43	2.3
31	.42	---	.10	.20	---	9.1	---	.06	---	.51	.22	---
TOTAL	5.12	4.00	5.45	9.10	62.00	928.2	108.9	34.10	2.92	6.43	38.80	154.94
MEAN	.17	.13	.18	.29	2.21	29.9	3.63	1.10	.097	.21	1.25	5.16
MAX	.81	.31	.34	2.0	15	366	9.2	3.4	.70	1.2	11	65
MIN	.05	.07	.10	.10	.10	2.4	1.4	.06	.00	.00	.00	.00
CFSM	.02	.02	.02	.03	.26	3.51	.43	.13	.01	.03	.15	.61
IN.	.02	.02	.02	.04	.27	4.06	.48	.15	.01	.03	.17	.68

CAL YR 1976 TOTAL 2459.07 MEAN 6.72 MAX 301 MIN .00 CFSM .79 IN 10.75
WTR YR 1977 TOTAL 1359.96 MEAN 3.73 MAX 366 MIN .00 CFSM .44 IN 5.94

03384450 LUSK CREEK NEAR EDDYVILLE, IL

LOCATION.--Lat 37°28'20", long 88°32'50", in SE¼ sec.16, T.12 S., R.6 E., Pope County, Hydrologic Unit 05140203, on left bank at upstream side of county highway bridge, 2.8 mi (4.5 km) southeast of Eddyville.

DRAINAGE AREA.--42.9 mi^2 (111.1 km^2).

PERIOD OF RECORD.--October 1967 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 360.42 ft (109.856 m) above mean sea level.

REMARKS.--Records good except those for winter periods which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--10 years, 59.3 ft^3/s (1.679 m^3/s), 18.77 in/yr (477 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,200 ft^3/s (317 m^3/s) May 27, 1973, gage height, 23.45 ft (7.148 m), from rating curve based on contracted opening measurement; no flow for several days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft^3/s (54 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 3	1815	2620	74.2	12.25	3.734	Mar. 28	0245	*9860	279	*22.21	6.770

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	2.1	.27	.30	.40	16	37	9.2	.74	2.0	.51	.68
2	.00	2.3	.09	.30	.40	12	39	8.0	.51	2.4	.46	.62
3	.00	1.9	.02	.30	.40	697	36	11	.46	1.7	.42	.51
4	.00	1.1	.00	.30	.40	370	35	19	.42	2.7	.34	.46
5	.00	.73	.00	.30	.40	102	34	18	.38	1.4	.31	.42
6	.00	.64	.00	.30	.40	54	29	16	.27	.74	.24	.88
7	.00	.53	.00	.30	.40	37	24	39	.27	.62	.22	4.7
8	.00	.43	.00	.20	.40	28	21	31	.22	.62	.34	2.5
9	.00	.19	.00	.20	.40	22	19	19	.17	.51	.46	1.4
10	.00	.27	.01	.20	.40	19	17	14	.22	.42	.42	1.2
11	.00	.21	.03	.20	2.0	19	15	11	.22	.42	1.2	1.5
12	.00	.44	.03	.20	25	510	13	8.8	.19	.38	1.0	1.1
13	.00	.91	.02	.20	10	108	12	8.0	.22	.34	3.9	44
14	.00	.95	.02	.20	7.0	56	11	6.8	.19	.34	2.4	31
15	.00	1.0	.00	.20	5.0	39	10	5.2	.19	.31	1.9	10
16	.00	.96	.00	.20	4.0	29	8.8	4.7	.17	.27	1.3	8.4
17	.00	.88	.00	.20	3.5	24	8.4	3.9	.88	.27	1.9	4.9
18	.00	.85	.17	.20	3.0	60	8.4	3.5	1.0	.24	2.4	3.5
19	.00	.94	.32	10	2.5	47	8.0	2.9	.74	.22	1.4	117
20	.00	1.0	.33	4.0	2.2	36	8.4	2.4	.62	.22	.96	26
21	.00	1.0	.11	2.0	2.0	29	8.0	1.9	.46	.22	.68	12
22	.00	.99	.16	1.0	2.8	25	10	2.9	.38	.17	1.3	7.2
23	.01	.93	.16	.70	51	21	139	2.2	.51	.15	5.8	4.7
24	.47	1.0	.16	.50	88	19	67	1.8	1.0	.19	2.5	193
25	.64	1.0	.23	.50	24	17	38	1.3	1.3	.31	1.5	50
26	1.2	2.4	.30	.50	17	16	25	1.2	1.2	.24	1.1	24
27	1.3	7.1	.35	.50	40	540	19	.89	2.7	.22	.88	35
28	.48	.90	.36	.50	23	3140	15	.81	3.1	.15	.74	24
29	.40	.67	.40	.50	---	196	13	.88	2.0	.56	1.2	13
30	1.9	.53	.40	.50	---	82	11	.74	1.8	.34	1.2	9.7
31	2.0	---	.30	.50	---	49	---	1.0	---	.46	.96	---
TOTAL	8.40	34.85	4.24	26.00	316.00	6419	739.0	257.02	22.53	19.13	39.94	633.37
MEAN	.27	1.16	.14	.84	11.3	207	24.6	8.29	.75	.62	1.29	21.1
MAX	2.0	7.1	.40	10	88	3140	139	39	3.1	2.7	5.8	193
MIN	.00	.19	.00	.20	.40	12	8.0	.74	.17	.15	.22	.42
CFSM	.006	.03	.003	.02	.26	4.83	.57	.19	.02	.01	.03	.49
IN.	.01	.03	.00	.02	.27	5.57	.64	.22	.02	.02	.03	.55

CAL YR 1976 TOTAL 12673.99 MEAN 34.6 MAX 1330 MIN .00 CFSM .81 IN 10.99
WTR YR 1977 TOTAL 8519.48 MEAN 23.3 MAX 3140 MIN .00 CFSM .54 IN 7.39

03384500 OHIO RIVER AT GOLCONDA, IL

LOCATION.--Lat 37°21'28", long 88°28'57", Pope County, Hydrologic Unit 05140203, on right bank at lock and dam 51, at Golconda, 0.5 mi (0.8 km) upstream from McGilligan Creek, 0.7 mi (1.1 km) downstream from Lusk Creek, and at mile 903.1 (1,453.1 km).

DRAINAGE AREA.--143,900 mi² (372,700 km²), approximately.

PERIOD OF RECORD.--October 1937 to current year (no low-flow records prior to October 1940 and after September 1952). Monthly discharge only for some periods, published in WSP 1725. Gage-height records collected at same site since 1924 are contained in reports of National Weather Service.

GAGE.--Nonrecording gage. Datum of gage is 294.6 ft (89.79 m) above mean sea level, Ohio River datum. Auxiliary nonrecording gage at lock and dam 50, 26.3 mi (42.3 km) upstream.

REMARKS.--Records good above 90,000 ft³/s (2,550 m³/s) and poor below. Discharge not computed when navigation dam 51 is partly or entirely in raised position. Discharge less than 100,000 ft³/s (2,830 m³/s) on day for which no discharge is shown.

COOPERATION.--Gage-height record furnished by Corps of Engineers.

AVERAGE DISCHARGE.--12 years (water years 1941-52), 180,900 ft³/s (5,123 m³/s), 17.07 in/yr (434 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,010,000 ft³/s (28,600 m³/s) Mar. 14-16, 1945; maximum gage height, 53.2 ft (16.22 m) Mar. 14, 15, 1945; minimum discharge not determined.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 1-3, 1937, reached a stage of 62.6 ft (19.08 m); maximum discharge, 1,470,000 ft³/s (41,600 m³/s) Feb. 2, 3, 1937.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 524,000 ft³/s (14,840 m³/s) Apr. 13, gage height, 39.4 ft (12.01 m); minimum discharge not determined.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	162000	---		---	324000	272000	149000	---	93300	---	---
2	---	157000	---		---	350000	264000	157000	---	80800	---	---
3	---	163000	---		---	369000	264000	168000	---	89100	---	---
4	---	165000	---		---	384000	283000	172000	---	86000	---	---
5	78800	167000	---		---	397000	315000	154000	---	---	---	---
6	---	159000	---		---	409000	327000	138000	---	---	---	---
7	---	140000	---		---	424000	354000	152000	---	---	---	---
8	---	123000	---		---	431000	392000	168000	---	---	---	---
9	---	79700	---		---	440000	427000	192000	---	---	---	---
10	---	---	113000		---	439000	459000	228000	---	---	---	---
11	68300	---	152000		---	424000	489000	256000	---	---	73800	---
12	90800	---	174000		---	397000	504000	259000	---	---	80900	---
13	130000	---	175000		---	359000	524000	226000	---	---	103000	---
14	177000	---	144000		---	334000	523000	172000	---	---	135000	---
15	234000	---	117000		155000	338000	500000	139000	---	---	155000	---
16	266000	---	108000		176000	349000	456000	119000	---	---	177000	---
17	201000	---	106000		183000	371000	386000	91800	---	79800	219000	---
18	124000	---	106000		180000	383000	285000	---	---	---	255000	---
19	79900	---	88500		159000	393000	193000	---	---	---	234000	79500
20	---	---	79100		138000	400000	135000	---	---	---	176000	77400
21	---	---	---		122000	391000	103000	---	---	---	146000	76700
22	---	---	---		116000	372000	110000	---	---	---	138000	75000
23	---	---	---		104000	357000	120000	---	---	---	113000	89300
24	---	---	---		106000	348000	138000	---	---	---	88000	102000
25	---	---	---		152000	339000	126000	---	---	78400	107000	106000
26	84900	---	---		192000	310000	121000	---	---	79000	121000	86900
27	84000	---	---		247000	288000	128000	---	---	75000	124000	64500
28	97000	---	---		287000	305000	137000	---	97200	---	121000	71700
29	121000	---	---		---	320000	137000	---	101000	---	102000	79500
30	149000	---	---		---	320000	146000	---	105000	---	---	80200
31	162000	---	---		---	293000	---	---	---	---	---	---
TOTAL	---	---	---		---	11358000	8623000	---	---	---	---	---
MEAN	---	---	---		---	366400	287400	---	---	---	---	---
MAX	---	---	---		---	440000	524000	---	---	---	---	---
MIN	---	---	---		---	288000	103000	---	---	---	---	---

CAL YR 1976 MAX 628,000
WTR YR 1977 MAX 524,000

03611500 OHIO RIVER AT METROPOLIS, IL

LOCATION.--Lat 37°08'51", long 88°44'27", McCracken County, Ky., Hydrologic Unit 05140206, near center of span on downstream side of pier of Paducah & Illinois Railroad bridge at Metropolis, 9.5 mi (15.3 km) downstream from Tennessee River, 37 mi (60 km) upstream from mouth, and at mile 944.1 (1,519.1 km).

DRAINAGE AREA.--203,000 mi² (526,000 km²), approximately.

PERIOD OF RECORD.--January 1928 to current year. Prior to January 1934 monthly discharge only, published in WSP 1305. Gage-height records collected 9.6 mi (15.4 km) upstream at Paducah since 1890 are contained in reports of National Weather Service. Occasional discharge measurements 1881 to 1924 in reports of Mississippi River Commission.

GAGE.--Water-stage recorder. Datum of gage is 276.27 ft (84.207 m) above mean sea level. Prior to Dec. 22, 1936, water-stage recorders (temporary installations) at Paducah, Ky., Metropolis and Joppa, Ill., and Dam 52. Auxiliary water-stage recorder near Grand Chain, 0.5 mi (0.8 km) upstream from Dam 53, and 18 mi (29 km) downstream from base gage. Prior to May 29, 1936, auxiliary nonrecording gage at Dam 53.

REMARKS.--Records good except those below 100,000 ft³/s (2,380 m³/s) and for period of no gage-height record, Mar. 15 to Apr. 14, which are fair. Flow regulated by many dams and reservoirs.

AVERAGE DISCHARGE.--49 years, 264,300 ft³/s (7,485 m³/s), 17.68 in/yr (449 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,780,000 ft³/s (50,400 m³/s) Feb. 1, 1937, total discharge, including overflow through Bay Creek and Cache River Valleys, 1,850,000 ft³/s (52,400 m³/s); maximum gage height, 66.60 ft (20.300 m) Feb. 2, 1937; minimum daily discharge, 15,000 ft³/s (425 m³/s) July 30, 1930.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 817,000 ft³/s (23,100 m³/s) Apr. 10, gage height, not determined; minimum daily, 63,700 ft³/s (1,800 m³/s) June 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145000	278000	156000	137000	109000	453000	369000	281000	72500	196000	110000	136000
2	125000	278000	155000	151000	99500	484000	367000	276000	80300	157000	87000	151000
3	134000	277000	160000	143000	94000	513000	358000	277000	85800	141000	90500	128000
4	159000	275000	155000	142000	95600	564000	394000	288000	75900	157000	98000	98100
5	162000	276000	129000	150000	104000	642000	495000	283000	69000	147000	94500	114000
6	137000	264000	128000	155000	98400	695000	597000	265000	76100	102000	80900	123000
7	113000	236000	129000	154000	81100	714000	693000	258000	69100	112000	72900	114000
8	99300	208000	145000	169000	90200	728000	762000	272000	63700	119000	70900	132000
9	90200	168000	169000	172000	94900	728000	800000	297000	65000	120000	93200	147000
10	100000	156000	222000	168000	107000	722000	817000	328000	72200	123000	129000	136000
11	142000	148000	235000	168000	87900	707000	809000	349000	66900	139000	143000	128000
12	172000	148000	271000	156000	88000	690000	791000	366000	85900	147000	146000	134000
13	246000	145000	297000	165000	112000	694000	781000	356000	93500	153000	154000	133000
14	288000	143000	280000	191000	178000	687000	772000	319000	129000	130000	190000	129000
15	324000	133000	246000	203000	221000	686000	752000	274000	134000	138000	215000	119000
16	344000	133000	226000	214000	244000	690000	697000	232000	96900	147000	243000	136000
17	316000	132000	219000	207000	267000	680000	621000	207000	75000	161000	276000	172000
18	248000	126000	219000	205000	265000	670000	513000	180000	67300	154000	307000	231000
19	170000	110000	213000	202000	243000	646000	382000	166000	96400	124000	316000	225000
20	148000	115000	181000	204000	209000	606000	274000	154000	110000	93600	291000	230000
21	134000	117000	182000	191000	188000	546000	224000	147000	116000	98300	247000	228000
22	121000	100000	171000	188000	174000	505000	194000	139000	113000	124000	217000	212000
23	116000	94100	168000	187000	172000	480000	214000	134000	87500	128000	189000	223000
24	138000	103000	162000	183000	193000	466000	248000	125000	104000	132000	139000	230000
25	164000	98300	156000	173000	247000	460000	282000	121000	135000	153000	148000	226000
26	212000	105000	142000	162000	309000	427000	283000	126000	126000	150000	197000	194000
27	215000	126000	150000	160000	345000	393000	267000	110000	153000	163000	187000	181000
28	212000	104000	139000	138000	411000	412000	272000	106000	176000	164000	168000	171000
29	226000	117000	159000	110000	---	410000	287000	91300	199000	158000	177000	178000
30	247000	149000	177000	132000	---	367000	283000	79500	193000	156000	143000	182000
31	274000	---	131000	132000	---	381000	---	90800	---	127000	120000	---
TOTAL	5721500	4862400	5672000	5212000	4947600	17846000	14598000	6697600	3089000	4313900	5139900	4941100
MEAN	184600	162100	183000	168100	176700	575700	486600	216100	103000	139200	165800	164700
MAX	344000	278000	297000	214000	411000	728000	817000	366000	199000	196000	316000	231000
MIN	90200	94100	128000	110000	81100	367000	194000	79500	63700	93600	70900	98100

CAL YR 1976 TOTAL 90898600 MEAN 248400 MAX 800000 MIN 61700 CFSM 1.22 IN 16.66
WTR YR 1977 TOTAL 83041000 MEAN 227500 MAX 817000 MIN 63700 CFSM 1.12 IN 15.22

03612000 CACHE RIVER AT FORMAN, IL

LOCATION.--Lat 37°20'11", long 88°55'26", in NE¼NW¼ sec.6, T.14 S., R.3 E., Johnson County, Hydrologic Unit 05140206, at downstream side of highway bridge, 1.2 mi (1.9 km) southwest of Forman.

DRAINAGE AREA.--244 mi² (632 km²).

PERIOD OF RECORD.--October 1922 to July 1924, September 1924 to current year.

REVISED RECORDS.--WSP 623: 1923-24. WSP 823: 1934-35. WSP 1205: 1923-24, 1927-30. WSP 1335: 1923(M), 1925, 1926-27(M), 1928, 1929-30(M), 1931, 1933, 1934-36(M), 1937-39. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 318.47 ft (97.070 m) above mean sea level. Oct. 1, 1958, to Dec. 30, 1971, nonrecording gage at same site and datum. See WSP 1705 or 1725 for history of changes prior to Sept. 30, 1958.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year. Flow of lower part of Cache River basin was diverted from Ohio River to Mississippi River beginning Oct. 31, 1950, through diversion channel of Mounds-Mound City flood-protection project. Flow of upper part of Cache River basin, including flow past this station, continued to discharge to Ohio River, passing through Post Creek cutoff directly to Ohio River instead of through the original channel of Cache River.

AVERAGE DISCHARGE.--53 years (water years 1925-77), 297 ft³/s (8.411 m³/s); 16.53 in/yr (420 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,630 ft³/s (273 m³/s) Mar. 12, 1935, gage height, 17.99 ft (5.483 m), site and datum then in use, from graph based on gage readings; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,600 ft³/s (45 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 4	0415	1630	46.2	14.59	4.447	Mar. 30	0545	*7160	203	*26.55	8.092

No flow for several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	26	33	.53	.80	217	3560	573	11	138	9.4	57
2	.00	30	19	.40	.60	144	2230	574	8.2	257	6.8	24
3	.00	39	16	.40	.60	339	1580	565	6.4	141	3.9	13
4	.00	20	20	.30	3.0	1560	1070	542	6.4	57	2.4	6.9
5	.05	9.9	13	.30	10	1040	843	623	6.4	31	.59	4.9
6	2.4	4.5	10	.20	20	668	704	521	5.5	21	.71	9.8
7	4.9	1.9	12	.00	15	623	554	494	6.1	16	1.3	51
8	3.8	.20	15	.00	12	596	420	483	7.3	11	2.0	37
9	2.2	1.5	13	.00	10	500	316	347	7.6	8.7	6.9	15
10	.80	2.4	18	.10	20	359	252	235	6.9	7.1	51	44
11	.90	2.6	30	.10	169	266	216	170	6.4	6.9	65	51
12	1.2	2.4	32	.10	281	862	185	130	4.9	102	37	14
13	1.0	2.1	25	.10	341	814	157	107	4.7	64	65	95
14	.84	1.9	35	.10	301	615	133	89	4.7	29	49	394
15	.74	.92	37	.20	201	605	114	71	4.7	17	36	241
16	.05	.67	31	1.0	109	591	98	54	4.7	9.8	37	100
17	.00	.62	25	2.5	64	525	85	44	4.7	6.8	425	48
18	.00	.37	19	4.5	45	464	69	34	4.9	5.5	285	26
19	.03	1.5	17	5.0	33	411	58	24	5.7	3.8	120	22
20	.22	3.5	13	4.0	27	343	67	21	4.6	2.8	48	28
21	.24	3.6	9.1	3.5	22	265	104	18	2.4	2.4	26	60
22	.04	3.3	7.6	3.0	19	220	213	16	1.3	2.4	17	35
23	4.4	3.9	6.1	2.7	75	184	838	20	2.0	1.9	12	19
24	53	3.6	4.9	2.4	534	154	647	18	6.5	1.7	7.4	217
25	117	3.2	4.1	2.2	462	132	545	24	84	9.8	5.6	400
26	136	3.8	3.2	2.0	316	117	542	25	65	165	5.6	294
27	64	7.1	2.8	1.8	284	328	491	39	152	217	5.0	255
28	30	24	3.6	1.6	282	2620	428	36	287	71	3.6	280
29	8.0	64	3.6	1.4	---	5600	1260	22	164	32	7.0	168
30	1.5	49	1.8	1.2	---	7050	647	15	90	17	18	84
31	25	---	.78	1.0	---	5940	---	13	---	13	112	---
TOTAL	458.31	317.48	480.58	42.63	3657.00	34152	18426	5947	976.0	1468.6	1471.20	3093.6
MEAN	14.8	10.6	15.5	1.38	131	1102	614	192	32.5	47.4	47.5	103
MAX	136	64	37	5.0	534	7050	3560	623	287	257	425	400
MIN	.00	.20	.78	.00	.60	117	58	13	1.3	1.7	.59	4.9
CFSM	.06	.04	.06	.006	.54	4.52	2.52	.79	.13	.19	.20	.42
IN.	.07	.05	.07	.01	.56	5.21	2.81	.91	.15	.22	.22	.47

CAL YR 1976 TOTAL 61761.86 MEAN 169 MAX 2100 MIN .00 CFSM .69 IN 9.42
WTR YR 1977 TOTAL 70490.40 MEAN 193 MAX 7050 MIN .00 CFSM .79 IN 10.75

STREAMS TRIBUTARY TO LAKE MICHIGAN

04092490 CALUMET RIVER AT CHICAGO, IL

LOCATION.--Lat 41°40'10", long 87°33'34", in SE¼NE¼ sec.25, T.37 N., R.14 E., Cook County, Hydrologic Unit 04040001, on left upstream side of bridge on Torrence Avenue in Chicago, 1.6 mi (2.6 km) downstream from O'Brien Lock and Dam, and at mile 5.24 (8.43 km).

DRAINAGE AREA.--Indeterminate.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: March 1974 to September 1977 (discontinued).

INSTRUMENTATION.--Water-quality monitor since March 1974.

REMARKS.--No record Mar. 28, 30, Apr. 1, 3, Aug. 5 to Sept. 11 due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 28.5°C Aug. 5, 1976; minimum, 0.0°C Jan. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 28.0°C July 15; minimum, 0.0°C Jan. 29, 30.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.0	20.5	21.5	12.5	11.5	12.0	5.0	5.0	5.0	0.5	0.5	0.5
2	21.5	20.5	21.0	12.0	11.0	11.5	5.0	4.5	5.0	0.5	0.5	0.5
3	22.0	21.0	21.5	12.0	11.5	11.5	4.5	4.0	4.0	0.5	0.5	0.5
4	21.5	21.0	21.5	12.5	11.5	11.5	4.5	4.0	4.5	0.5	0.5	0.5
5	21.0	20.5	20.5	11.5	10.5	11.0	5.5	4.5	5.0	0.5	0.5	0.5
6	20.5	20.0	20.5	11.5	10.0	10.5	5.5	5.5	5.5	1.0	0.5	1.0
7	20.0	19.5	20.0	11.5	10.5	11.0	5.5	4.5	5.0	1.0	0.5	0.5
8	21.0	18.5	20.0	11.0	9.5	10.5	4.5	4.0	4.5	1.0	0.5	0.5
9	20.0	19.0	19.5	11.0	9.5	10.0	4.0	4.0	4.0	0.5	0.5	0.5
10	19.5	19.0	19.0	11.5	11.0	11.5	4.0	4.0	4.0	0.5	0.5	0.5
11	19.5	18.5	19.0	11.5	11.0	11.0	4.0	2.5	3.0	1.0	0.5	0.5
12	19.0	18.0	18.5	10.5	10.0	10.0	2.0	1.5	2.0	1.0	0.5	0.5
13	19.0	18.5	19.0	10.0	9.5	10.0	1.5	1.0	1.0	1.0	0.5	0.5
14	18.5	16.5	18.0	10.0	9.5	9.5	2.0	1.0	1.5	1.0	1.0	1.0
15	18.5	17.0	17.5	10.0	8.0	9.0	2.0	2.0	2.0	1.0	1.0	1.0
16	18.5	17.0	17.5	8.0	7.5	7.5	2.0	2.0	2.0	1.0	0.5	1.0
17	17.0	16.5	16.5	7.5	6.5	7.0	2.5	2.0	2.0	0.5	0.5	0.5
18	15.5	15.0	16.0	7.0	6.5	7.0	2.5	2.5	2.5	1.0	0.5	1.0
19	15.5	15.0	15.0	7.0	7.0	7.0	3.0	2.5	2.5	1.0	1.0	1.0
20	15.5	15.0	15.0	7.0	6.5	7.0	2.5	2.0	2.5	1.0	1.0	1.0
21	14.5	14.0	14.5	6.5	6.5	6.5	2.0	1.0	1.5	1.0	1.0	1.0
22	14.5	13.5	14.0	6.5	6.0	6.0	2.5	1.5	2.0	1.0	1.0	1.0
23	14.5	14.0	14.0	6.0	5.5	5.5	2.5	1.0	1.5	1.0	1.0	1.0
24	15.0	14.5	15.0	6.5	6.0	6.0	1.0	0.5	0.5	1.5	1.0	1.0
25	14.0	12.5	13.5	7.0	6.5	6.5	1.0	1.0	1.0	1.5	1.5	1.5
26	13.0	12.5	13.0	7.0	7.0	7.0	1.0	1.0	1.0	1.5	1.0	1.0
27	12.5	12.0	12.5	7.0	6.5	6.5	1.0	0.5	1.0	1.5	0.5	1.0
28	12.0	11.5	11.5	6.5	5.5	6.0	1.5	1.0	1.0	0.5	0.5	0.5
29	12.5	11.5	12.0	5.5	4.5	5.0	1.0	0.5	1.0	0.5	0.0	0.0
30	13.5	12.5	13.0	5.0	4.5	4.5	1.0	0.5	1.0	0.5	0.0	0.5
31	13.5	12.5	13.0	---	---	---	0.5	0.5	0.5	0.5	0.5	0.5
MONTH	22.0	11.5	17.0	12.5	4.5	8.5	5.5	0.5	2.5	1.5	0.0	0.5

04092490 CALUMET RIVER AT CHICAGO, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	0.5	0.5	2.5	2.0	2.0	---	---	---	16.5	15.5	16.0
2	1.0	1.0	1.0	2.0	2.0	2.0	12.5	11.0	12.0	17.0	16.0	16.5
3	1.5	1.0	1.0	5.0	2.0	4.0	---	---	---	17.5	16.0	17.0
4	1.5	1.0	1.5	3.5	3.0	3.0	13.5	12.5	13.0	17.5	16.5	17.0
5	1.5	1.0	1.0	3.0	3.0	3.0	13.0	12.0	12.5	18.0	16.0	17.0
6	1.5	1.0	1.0	3.5	3.0	3.0	12.0	11.0	11.5	18.5	17.0	17.5
7	1.5	1.5	1.5	4.0	3.0	3.5	13.5	11.0	12.0	18.5	17.5	18.0
8	2.0	1.5	2.0	4.0	3.5	3.5	13.0	11.5	12.5	19.0	17.0	18.0
9	2.0	1.5	1.5	5.5	4.0	4.5	13.0	11.5	12.0	18.5	17.5	17.5
10	2.0	2.0	2.0	7.0	5.0	6.0	13.0	11.5	12.0	19.0	17.5	18.0
11	2.5	2.0	2.0	9.0	7.0	8.0	13.0	12.5	12.5	19.0	17.5	18.0
12	3.5	2.5	3.0	10.5	9.0	10.0	14.5	13.0	14.0	19.0	17.5	18.5
13	3.5	3.0	3.0	10.0	9.5	10.0	15.5	14.0	14.5	20.0	18.5	19.0
14	3.5	3.0	3.0	11.5	9.5	10.5	16.0	14.5	15.5	21.0	19.5	20.0
15	3.5	2.5	3.0	10.5	10.0	10.0	16.5	15.5	15.5	21.0	20.0	20.5
16	2.5	2.0	2.5	10.5	9.5	10.0	16.5	15.5	16.0	21.5	20.0	20.5
17	2.5	2.0	2.5	11.0	10.0	10.5	17.5	15.5	16.5	21.5	20.0	20.5
18	2.5	2.5	2.5	11.5	10.0	10.5	18.0	16.5	17.0	22.0	20.5	21.0
19	2.5	2.5	2.5	11.5	10.0	11.0	17.0	16.5	16.5	23.0	21.5	22.0
20	2.5	1.5	2.0	10.5	9.5	9.5	18.0	16.5	17.5	23.0	21.5	22.5
21	1.5	1.5	1.5	10.0	9.5	10.0	18.0	17.5	17.5	22.5	21.0	21.5
22	1.5	1.5	1.5	9.5	8.5	9.0	17.5	16.5	17.0	22.5	21.5	21.5
23	2.5	1.5	2.0	10.0	9.0	9.5	16.5	16.0	16.5	22.5	21.5	22.0
24	2.5	2.0	2.0	10.0	9.0	9.5	16.5	16.0	16.0	23.5	22.0	22.5
25	3.0	2.0	2.5	11.0	9.5	10.0	16.5	15.5	16.0	23.0	22.0	22.5
26	3.0	2.0	2.5	10.5	9.5	10.0	16.5	15.5	16.0	23.0	22.5	23.0
27	2.0	2.0	2.0	11.5	9.5	10.0	17.0	15.5	16.0	23.5	22.5	23.0
28	3.0	2.0	2.5	---	---	---	16.5	15.0	15.5	24.0	23.0	23.5
29	---	---	---	11.0	9.5	10.5	16.5	15.0	15.5	23.0	22.5	22.5
30	---	---	---	---	---	---	16.5	15.0	15.5	23.0	22.0	22.5
31	---	---	---	12.5	11.0	11.5	---	---	---	23.0	22.0	22.5
MONTH	3.5	0.5	2.0	12.5	2.0	7.5	18.0	11.0	15.0	24.0	15.5	20.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.0	21.5	22.0	24.5	24.0	24.0	25.5	25.0	25.5	---	---	---
2	21.5	21.0	21.5	25.0	24.0	24.5	25.5	25.0	25.0	---	---	---
3	22.0	21.0	21.5	24.5	24.0	24.5	26.0	25.5	25.5	---	---	---
4	22.5	21.0	21.5	26.0	24.0	24.5	26.0	25.5	25.5	---	---	---
5	23.0	21.5	22.5	26.0	24.5	24.5	---	---	---	---	---	---
6	23.0	21.5	22.0	26.5	25.0	25.5	---	---	---	---	---	---
7	21.5	21.0	21.5	26.5	26.0	26.0	---	---	---	---	---	---
8	21.5	21.0	21.0	26.5	26.0	26.0	---	---	---	---	---	---
9	21.0	20.5	20.5	26.0	25.5	26.0	---	---	---	---	---	---
10	21.0	20.0	20.5	26.0	25.5	25.5	---	---	---	---	---	---
11	21.0	19.5	20.5	26.5	25.5	25.5	---	---	---	---	---	---
12	20.5	20.0	20.5	26.0	25.0	25.5	---	---	---	24.0	23.5	23.5
13	21.0	20.0	20.5	26.0	25.	25.5	---	---	---	25.0	23.5	24.0
14	21.0	20.0	20.5	27.0	25.5	26.0	---	---	---	24.0	23.0	23.5
15	22.0	21.0	21.5	28.0	26.0	26.5	---	---	---	23.5	22.5	23.0
16	23.0	21.0	22.0	27.0	27.0	27.0	---	---	---	23.0	22.5	22.5
17	24.0	22.0	23.0	27.0	25.5	26.5	---	---	---	23.0	22.5	23.0
18	23.0	22.5	23.0	25.5	24.5	25.0	---	---	---	23.5	22.5	23.0
19	23.0	22.5	22.5	26.0	24.5	25.5	---	---	---	24.0	23.0	23.5
20	23.5	22.5	23.0	26.5	26.0	26.0	---	---	---	23.0	22.5	23.0
21	23.5	22.5	23.0	26.0	24.0	25.0	---	---	---	23.0	22.5	22.5
22	23.5	23.0	23.0	24.5	23.5	23.5	---	---	---	22.5	22.0	22.5
23	23.5	23.0	23.5	25.5	23.0	24.0	---	---	---	23.0	22.0	22.5
24	24.5	23.0	23.5	24.5	23.5	24.0	---	---	---	22.5	21.5	22.0
25	24.5	23.5	24.0	23.5	23.5	23.5	---	---	---	23.0	22.0	22.5
26	24.5	23.5	24.0	23.5	23.0	23.5	---	---	---	22.5	21.5	22.0
27	26.0	24.0	24.5	24.0	23.0	23.5	---	---	---	22.5	22.0	22.0
28	25.0	24.0	24.5	24.5	23.5	24.0	---	---	---	22.5	21.5	22.0
29	25.0	24.0	24.5	26.0	24.0	25.0	---	---	---	22.0	21.0	21.5
30	24.5	24.0	24.0	25.5	25.5	25.5	---	---	---	22.0	21.0	21.5
31	---	---	---	26.0	25.0	25.5	---	---	---	---	---	---
MONTH	26.0	19.5	22.5	28.0	23.0	25.0	26.0	25.0	25.5	25.0	21.0	22.5
YEAR	28.0	0.0	13.0									

04092500 WOLF LAKE AT CHICAGO, IL

LOCATION.--Lat 41°39'53", long 87°32'22", in NW¼SW¼ sec.29, T.37 N., R.15 E., Cook County, Hydrologic Unit 04040001, at outlet on west shore of Wolf Lake in Chicago.

PERIOD OF RECORD.--December 1939 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 580.45 ft (176.921 m) above mean sea level (Cook County Highway Department bench mark). See WSP 1707 for history of changes prior to May 5, 1959.

REMARKS.--Portion of lake at former recorder site diked off and drained June 30, 1957, to May 5, 1959. Gage heights estimated Jan. 2-13.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 3.00 ft (0.914 m) Oct. 11, 12, 1954; minimum gage height observed, 0.76 ft (0.232 m) Aug. 3, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.04 ft (0.622 m) Sept. 3; minimum, 1.35 ft (0.411 m) Aug. 1.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.60	1.67	1.60	1.60	1.61	1.68	1.67	1.60	1.47	1.65	1.36	1.86
2	1.60	1.66	1.61	1.60	1.61	1.68	1.69	1.64	1.47	1.62	1.36	2.03
3	1.60	1.64	1.62	1.60	1.62	1.68	1.68	1.64	1.47	1.62	1.40	2.03
4	1.59	1.63	1.62	1.60	1.62	1.70	1.71	1.64	1.47	1.60	1.43	2.00
5	1.58	1.64	1.62	1.60	1.61	1.70	1.68	1.68	1.49	1.58	1.45	1.95
6	1.64	1.64	1.62	1.60	1.61	1.70	1.67	1.69	1.50	1.55	1.47	1.90
7	1.63	1.61	1.63	1.60	1.61	1.68	1.66	1.68	1.49	1.55	1.49	1.84
8	1.62	1.60	1.63	1.60	1.61	1.67	1.65	1.66	1.51	1.55	1.57	1.80
9	1.61	1.60	1.63	1.60	1.61	1.65	1.64	1.65	1.53	1.54	1.60	1.75
10	1.60	1.60	1.62	1.60	1.63	1.65	1.60	1.64	1.54	1.52	1.60	1.72
11	1.60	1.60	1.62	1.61	1.65	1.66	1.57	1.63	1.70	1.52	1.60	1.70
12	1.60	1.61	1.62	1.62	1.68	1.70	1.57	1.61	1.70	1.52	1.60	1.63
13	1.59	1.61	1.61	1.62	1.70	1.69	1.57	1.60	1.69	1.52	1.60	1.65
14	1.58	1.61	1.60	1.63	1.70	1.68	1.57	1.60	1.67	1.51	1.59	1.67
15	1.58	1.61	1.60	1.63	1.70	1.67	1.58	1.60	1.67	1.50	1.57	1.74
16	1.57	1.61	1.60	1.62	1.70	1.63	1.58	1.58	1.65	1.50	1.57	1.75
17	1.58	1.60	1.60	1.62	1.70	1.65	1.57	1.57	1.64	1.50	1.56	1.76
18	1.60	1.62	1.60	1.62	1.70	1.68	1.57	1.56	1.64	1.50	1.55	1.81
19	1.60	1.61	1.60	1.62	1.69	1.68	1.58	1.56	1.62	1.50	1.55	1.83
20	1.60	1.62	1.60	1.62	1.69	1.69	1.62	1.57	1.60	1.49	1.55	1.80
21	1.59	1.62	1.60	1.62	1.69	1.68	1.68	1.56	1.60	1.48	1.55	1.77
22	1.58	1.61	1.60	1.62	1.68	1.68	1.67	1.53	1.58	1.47	1.56	1.74
23	1.58	1.60	1.60	1.62	1.70	1.66	1.67	1.53	1.57	1.45	1.55	1.73
24	1.60	1.58	1.60	1.63	1.71	1.65	1.65	1.55	1.57	1.45	1.55	1.71
25	1.61	1.58	1.59	1.62	1.70	1.64	1.63	1.55	1.57	1.45	1.55	1.70
26	1.62	1.61	1.59	1.62	1.70	1.63	1.62	1.55	1.57	1.41	1.54	1.67
27	1.64	1.67	1.58	1.61	1.71	1.61	1.60	1.55	1.55	1.40	1.54	1.65
28	1.63	1.65	1.58	1.61	1.70	1.72	1.61	1.54	1.55	1.39	1.55	1.65
29	1.63	1.61	1.58	1.61	---	1.68	1.61	1.53	1.54	1.40	1.60	1.64
30	1.64	1.60	1.60	1.61	---	1.67	1.60	1.52	1.64	1.39	1.60	1.64
31	1.67	---	1.60	1.61	---	1.65	---	1.50	---	1.37	1.61	---
MEAN	1.61	1.62	1.61	1.61	1.67	1.67	1.63	1.59	1.58	1.50	1.54	1.77
MAX	1.67	1.67	1.63	1.63	1.71	1.72	1.71	1.69	1.70	1.65	1.61	2.03
MIN	1.57	1.58	1.58	1.60	1.61	1.61	1.57	1.50	1.47	1.37	1.36	1.63

WTR YR 1977 MEAN 1.61 MAX 2.03 MIN 1.36

04092550 LAKE MICHIGAN AT CALUMET PARK AT CHICAGO, IL

LOCATION.--Lat 41°43'02", long 87°31'34", in NE¼NE¼ sec.8, T.37 N., R.15 E., Cook County, Hydrologic Unit 04040001, on west shore of Lake Michigan at Coast Guard Station in Calumet Park in Chicago, 1.1 mi (1.8 km) south from mouth of Calumet River.

DRAINAGE AREA.--Indeterminate.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: March 1974 to September 1977 (discontinued).

INSTRUMENTATION.--Water-quality monitor since March 1974.

REMARKS.--No record Oct. 1 to Nov. 21 due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 27.5°C July 1, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 24.5°C July 15, 23, 30, 31; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1				---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
2				---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
3				---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
4				---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
5				---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
6				---	---	---	0.0	0.0	0.0	0.5	0.0	0.0
7				---	---	---	0.5	0.0	0.0	0.0	0.0	0.0
8				---	---	---	1.5	0.5	1.0	0.0	0.0	0.0
9				---	---	---	1.0	0.5	1.0	0.0	0.0	0.0
10				---	---	---	1.0	0.0	0.5	0.0	0.0	0.0
11				---	---	---	0.5	0.0	0.0	0.0	0.0	0.0
12				---	---	---	0.5	0.0	0.0	0.0	0.0	0.0
13				---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
14				---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
15				---	---	---	1.5	0.0	0.5	0.0	0.0	0.0
16				---	---	---	2.0	0.5	1.0	0.0	0.0	0.0
17				---	---	---	1.5	1.0	1.0	0.0	0.0	0.0
18				---	---	---	0.5	0.0	0.0	0.0	0.0	0.0
19				---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
20				---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
21				---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
22				3.5	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
23				3.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
24				2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
25				4.5	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
26				6.0	4.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
27				5.0	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
28				4.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
29				2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
30				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31				---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH				6.0	0.0	3.0	2.0	0.0	0.0	0.5	0.0	0.0

04092550 LAKE MICHIGAN AT CALUMET PARK AT CHICAGO, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	2.0	0.5	1.0	10.5	8.5	9.5	13.0	11.5	12.5
2	0.5	0.0	0.0	1.5	0.5	1.0	11.0	9.0	10.0	12.0	10.0	10.5
3	0.5	0.0	0.5	3.5	0.5	2.5	9.0	8.5	9.0	11.5	9.5	10.5
4	0.5	0.0	0.0	4.0	3.5	4.0	9.5	8.5	9.0	12.5	11.0	11.5
5	0.5	0.0	0.0	3.5	2.5	3.5	9.0	7.5	8.5	14.0	11.5	12.5
6	0.5	0.0	0.5	2.5	2.0	2.5	8.0	7.0	7.5	12.5	11.5	12.0
7	0.5	0.0	0.5	3.5	2.0	3.0	9.0	7.0	8.0	12.5	12.0	12.0
8	0.5	0.0	0.5	5.5	3.0	4.0	7.5	7.0	7.5	12.0	11.0	11.5
9	0.5	0.0	0.5	7.5	5.5	6.5	8.5	6.5	7.5	11.5	10.5	11.0
10	0.5	0.0	0.5	8.0	7.0	7.5	11.0	8.0	9.5	12.5	11.0	11.5
11	0.5	0.0	0.5	7.5	7.0	7.5	12.5	10.5	11.5	14.5	12.0	12.5
12	0.5	0.5	0.5	9.5	7.5	8.5	3.5	11.0	12.0	13.5	12.0	12.5
13	0.5	0.5	0.5	9.0	7.5	8.0	12.0	10.0	11.0	13.5	12.0	12.5
14	0.5	0.5	0.5	8.0	6.5	7.5	10.0	9.5	9.5	15.0	12.5	13.5
15	0.5	0.0	0.0	9.5	7.5	8.0	12.0	9.5	10.5	16.5	13.5	15.0
16	0.0	0.0	0.0	8.0	7.0	7.5	12.0	10.5	11.0	17.5	15.5	16.5
17	0.5	0.0	0.0	6.5	5.5	6.0	14.0	10.5	12.0	16.5	13.0	14.5
18	0.5	0.5	0.5	6.5	6.0	6.5	13.0	11.0	12.0	15.0	13.0	13.5
19	0.5	0.5	0.5	6.0	5.0	5.5	13.0	12.5	13.0	18.0	13.5	15.5
20	1.0	0.0	0.5	6.5	5.0	6.0	13.5	10.5	12.0	18.5	14.0	16.5
21	0.5	0.0	0.5	6.0	5.0	6.0	12.0	10.0	11.5	17.5	12.5	15.5
22	1.5	0.0	0.5	5.5	4.5	5.0	9.5	9.5	9.5	17.5	14.0	16.5
23	1.5	0.5	0.5	6.0	5.0	5.5	10.0	9.5	9.5	16.5	14.0	15.0
24	1.5	1.0	1.5	5.5	4.5	5.0	10.0	9.0	9.5	18.0	12.5	15.5
25	1.5	1.0	1.0	9.5	5.0	8.0	10.0	9.5	9.5	17.0	15.0	16.5
26	2.0	1.0	1.5	9.0	8.0	8.5	11.5	9.5	10.5	15.5	14.5	15.0
27	1.0	0.5	0.5	9.0	8.0	8.5	13.5	11.0	12.0	16.5	15.0	15.5
28	1.0	0.0	0.5	9.0	8.0	9.0	11.5	9.5	10.5	19.5	16.5	17.5
29	---	---	---	11.0	9.0	10.0	11.0	9.0	10.0	19.0	18.0	18.5
30	---	---	---	10.0	9.0	9.5	12.0	10.5	11.5	20.0	18.0	19.0
31	---	---	---	9.0	8.0	8.5	---	---	---	20.5	18.0	19.0
MONTH	2.0	0.0	0.5	11.0	0.5	6.0	14.0	6.5	10.0	20.5	9.5	14.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.5	18.0	18.0	19.5	17.5	18.5	23.5	22.5	23.0	19.0	17.0	18.0
2	19.0	17.0	17.5	20.0	18.0	18.5	23.5	22.5	22.5	19.0	18.0	18.5
3	18.5	17.0	18.0	20.5	19.0	19.0	24.5	22.0	23.0	21.0	18.0	19.0
4	20.5	17.5	19.0	20.5	18.5	19.5	23.5	22.5	23.0	21.5	20.0	20.5
5	19.0	17.0	18.0	19.5	18.0	18.5	22.5	21.5	22.5	20.0	19.5	20.0
6	18.0	17.0	17.5	20.5	17.0	18.5	22.0	20.5	21.0	22.5	19.5	20.5
7	18.0	16.0	17.0	20.0	18.5	19.5	22.0	19.5	21.0	21.5	20.5	21.0
8	17.5	16.5	17.0	21.0	19.0	19.5	20.5	19.5	20.0	22.0	20.5	21.0
9	17.0	15.5	16.5	21.0	19.5	20.0	20.5	19.5	20.0	22.0	20.5	21.0
10	17.5	16.0	17.0	22.0	19.5	20.5	20.5	18.5	19.5	21.0	20.0	20.5
11	18.0	16.0	17.0	22.5	20.5	21.5	20.0	19.5	20.0	22.0	20.0	21.0
12	17.5	16.0	16.5	23.0	20.0	21.5	20.5	19.0	19.5	21.5	19.0	20.0
13	16.5	16.0	16.5	24.0	20.0	22.5	21.0	19.0	20.0	19.5	19.0	19.0
14	17.5	16.0	17.0	23.5	22.0	23.0	20.0	19.0	19.5	19.5	18.5	19.0
15	18.5	16.5	17.5	24.5	20.0	22.5	23.0	19.5	21.5	19.0	18.5	18.5
16	19.5	16.5	18.0	23.5	21.0	22.5	23.5	16.0	20.5	19.5	18.5	19.0
17	18.5	16.0	17.0	22.0	20.0	21.0	19.5	18.5	18.5	19.5	18.0	18.5
18	17.5	16.5	17.0	22.0	19.0	21.0	20.0	18.0	19.0	19.0	18.5	19.0
19	18.5	16.5	17.0	20.0	18.0	19.0	20.5	20.0	20.0	19.0	17.0	18.0
20	18.5	17.0	17.5	20.0	17.0	18.0	21.0	20.0	20.5	17.0	16.0	16.5
21	20.5	18.0	19.0	22.5	18.0	21.0	20.5	20.0	20.0	16.0	16.0	16.0
22	21.5	19.5	20.5	23.5	22.0	22.5	22.0	19.5	20.5	17.0	15.5	16.5
23	21.5	19.0	20.0	24.5	22.0	23.0	21.0	20.0	20.5	17.0	16.0	16.5
24	20.0	18.5	19.0	23.5	22.5	23.0	21.0	20.0	20.5	18.0	17.0	17.5
25	21.0	18.5	20.0	22.5	22.0	22.0	22.0	19.5	20.5	17.5	17.0	17.5
26	23.0	19.5	21.0	22.0	21.5	21.5	21.5	20.0	21.0	17.0	16.0	16.5
27	23.0	21.5	22.0	23.0	20.5	22.0	23.5	21.5	22.5	16.0	15.5	16.0
28	22.5	18.0	21.0	24.0	22.5	23.0	23.0	18.5	21.5	16.0	15.0	15.5
29	19.0	17.5	18.0	23.0	22.0	22.0	20.0	19.0	19.5	15.5	15.0	15.5
30	18.5	18.0	18.0	24.5	22.0	23.0	21.5	18.0	19.5	15.5	14.5	15.0
31	---	---	---	24.5	23.0	24.0	21.5	17.5	19.5	---	---	---
MONTH	23.0	15.5	18.0	24.5	17.0	21.0	24.5	16.0	20.5	22.5	14.5	18.5
YEAR	24.5	0.0	11.0									

SINSINAWA RIVER BASIN

05414820 SINSINAWA RIVER NEAR MENOMINEE, IL

LOCATION.--Lat 42°28'44", long 90°29'10", in SE¼SE¼ sec.28, T.29 N., R.1 W., Jo Daviess County, Hydrologic Unit 07060005, on left bank at downstream side of county road bridge, 2.4 mi (3.9 km) east of Menominee, 4.5 mi (7.2 km) northwest of Galena, and about 5.9 mi (9.5 km) upstream from mouth.

DRAINAGE AREA.--39.6 mi² (102.0 km²).

PERIOD OF RECORD.--October 1967 to current year.

REVISED RECORD.--WDR IL-74: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 640.75 ft (195.301 m) above mean sea level.

REMARKS.--Records good except those for period of no gage-height record, Dec. 27 to Feb. 22, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--10 years, 30.3 ft³/s (0.858 m³/s), 10.39 in/yr (264 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft³/s (329 m³/s) June 29, 1969, gage height, 13.34 ft (4.066 m), from rating curve extended on basis of contracted-opening measurement and flow over road at gage height 13.34 ft (4.066 m); minimum, 3.1 ft³/s (0.088 m³/s) Dec. 17, 1975, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s (25 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Feb. 24	0300	1380	39.1	7.80	2.377
July 18	0700	*7940	225	*11.99	3.655

Minimum discharge, 5.3 ft³/s (0.15 m³/s) Nov. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	8.8	8.5	6.8	7.4	16	10	8.2	7.0	9.1	6.8	9.2
2	9.3	8.5	8.1	6.6	8.2	12	11	8.2	7.0	6.9	11	9.0
3	9.0	8.6	7.8	7.0	9.0	11	10	7.8	6.9	7.1	13	9.0
4	10	8.6	9.1	7.6	9.6	15	16	11	6.9	7.3	7.8	9.0
5	22	8.6	8.7	7.8	9.0	22	12	13	13	6.5	30	8.8
6	13	8.6	9.4	7.9	8.8	10	12	9.4	9.1	6.2	72	8.5
7	9.9	8.5	8.5	7.8	8.4	10	10	8.6	7.6	6.2	14	8.6
8	9.6	8.0	8.9	7.4	8.2	9.2	9.2	8.2	8.7	6.4	78	8.3
9	10	8.7	9.1	7.2	8.3	9.2	9.6	7.8	7.6	6.2	53	8.3
10	9.2	9.0	9.4	7.2	9.6	8.6	9.6	7.8	7.2	6.2	28	8.2
11	9.1	8.7	7.4	7.2	11	9.0	9.2	7.8	7.7	6.3	21	8.1
12	9.1	7.5	8.6	7.2	12	16	9.0	7.8	7.7	8.1	18	8.7
13	8.9	8.0	8.5	7.2	11	12	8.8	7.8	7.3	7.5	16	9.2
14	8.7	7.5	8.9	7.6	11	11	8.7	7.8	7.2	6.2	15	8.7
15	9.6	8.6	9.4	7.8	11	10	8.6	7.8	7.0	5.9	60	8.7
16	8.9	8.6	9.5	7.6	12	9.4	8.6	8.2	7.3	6.7	38	9.8
17	9.1	8.6	9.3	7.6	12	10	8.5	8.2	7.6	25	20	12
18	9.2	8.8	8.9	7.3	12	9.6	8.6	8.2	7.7	1730	15	69
19	11	8.7	9.4	7.2	12	9.6	8.5	7.8	7.0	26	13	14
20	10	8.5	8.0	7.2	13	10	9.0	9.4	6.7	15	12	11
21	9.8	8.6	6.5	7.4	14	9.8	14	25	6.7	12	11	11
22	9.7	8.0	7.6	7.6	58	9.8	11	9.4	7.0	10	10	10
23	9.7	7.0	8.1	8.0	524	9.6	9.0	8.6	7.0	9.5	9.2	23
24	11	9.4	7.4	8.2	853	9.3	8.6	8.2	18	12	8.9	191
25	10	9.3	8.8	8.4	84	9.0	8.2	7.8	11	10	8.7	19
26	9.4	9.7	9.2	8.0	58	9.4	8.2	7.4	7.5	9.0	10	15
27	8.6	8.0	8.6	7.8	40	10	8.2	7.4	7.0	8.0	9.9	14
28	8.5	7.5	7.9	7.4	24	16	11	7.0	7.1	7.4	12	12
29	8.8	7.0	7.4	7.4	---	25	9.0	7.4	6.9	7.4	10	12
30	10	7.0	7.0	7.4	---	13	8.2	7.0	13	6.8	9.2	12
31	11	---	6.7	7.4	---	11	---	7.0	---	7.4	9.2	---
TOTAL	311.3	250.9	260.8	232.4	1858.1	361.5	292.3	273.0	245.4	2004.3	649.7	565.1
MEAN	10.0	8.36	8.41	7.50	66.4	11.7	9.74	8.81	8.18	64.7	21.0	18.8
MAX	22	9.7	9.6	8.4	853	25	16	25	18	1730	78	191
MIN	8.5	7.0	6.5	6.8	7.4	8.6	8.2	7.0	6.7	5.9	6.8	8.1
CFSM	.25	.21	.21	.19	1.68	.30	.25	.22	.21	1.63	.53	.48
IN.	.29	.24	.24	.22	1.75	.34	.27	.26	.23	1.88	.61	.53

CAL YR 1976 TOTAL 6501.0 MEAN 17.8 MAX 688 MIN 6.5 CFSM .45 IN 6.11
WTR YR 1977 TOTAL 7304.8 MEAN 20.0 MAX 1730 MIN 5.9 CFSM .51 IN 6.86

05419000 APPLE RIVER NEAR HANOVER, IL

LOCATION.--Lat 42°15'05", long 90°17'10", in NE¼NW¼ sec.16, T.26 N., R.2 E., Jo Daviess County, Hydrologic Unit 07060005, on right bank 0.3 mi (0.5 km) southwest of Hanover and 12 mi (19 km) upstream from mouth.

DRAINAGE AREA.--247 mi² (640 km²).

PERIOD OF RECORD.--October 1934 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1005: 1939, 1941(M). WSP 1308: 1935-38(M), 1943-45(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 591.00 ft (180.137 m) above mean sea level. Prior to Oct. 1, 1945, nonrecording gage at site 3.5 mi (5.6 km) downstream at datum 9.48 ft (2.890 m) lower.

REMARKS.--Records good except those for winter periods, which are poor. Occasional regulation during low flow by dam at Hanover. Several observations of water temperature were made during the water year.

COOPERATION.--Five discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--43 years, 167 ft³/s (4.729 m³/s), 9.18 in/yr (233 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,000 ft³/s (340 m³/s) Jan. 5, 1946; maximum gage height, 26.12 ft (7.961 m) Jan. 5, 1946, ice jam; no flow for part of each day May 23, 24, 1967, result of temporary closure of gate at dam at Hanover.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,040 ft³/s (86.1 m³/s) Feb. 24, gage height, 11.63 ft (3.545 m); minimum daily, 17 ft³/s (0.48 m³/s) July 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	37	23	30	25	46	55	38	23	38	22	40
2	25	30	23	29	27	39	52	37	23	29	38	39
3	24	30	23	28	29	43	49	34	22	27	43	37
4	25	28	23	30	31	70	58	39	21	24	26	36
5	36	28	24	32	32	93	71	62	47	22	120	35
6	36	29	24	30	31	52	66	71	38	21	452	33
7	32	28	25	30	29	44	55	52	35	20	80	32
8	30	28	25	29	27	46	48	44	36	19	458	31
9	29	28	25	28	27	50	43	38	32	18	207	31
10	30	29	26	27	30	56	41	33	32	18	104	29
11	29	29	27	26	35	55	38	33	37	18	74	28
12	28	28	28	25	40	78	37	32	46	18	59	30
13	27	27	29	25	54	78	35	30	37	17	59	34
14	26	27	30	27	50	59	35	30	32	17	50	32
15	29	28	29	25	44	49	34	29	29	18	43	31
16	26	29	28	24	40	43	34	29	30	18	346	31
17	25	28	27	23	30	39	32	30	33	35	173	35
18	26	29	26	23	33	44	32	31	30	973	88	106
19	32	30	25	23	33	43	32	29	29	400	70	97
20	32	29	25	23	31	40	34	31	27	84	89	63
21	30	29	26	23	31	42	64	35	27	55	79	52
22	29	29	27	23	31	40	79	39	27	42	70	48
23	29	29	27	23	1160	38	62	35	27	34	61	48
24	29	28	28	25	1660	35	49	28	28	35	56	375
25	29	29	26	25	174	34	44	25	26	42	51	231
26	29	31	25	25	74	32	40	26	25	32	50	139
27	29	31	25	24	58	38	37	24	24	28	48	105
28	29	27	27	23	59	55	46	23	24	26	49	87
29	33	25	29	23	---	163	45	24	34	26	47	76
30	37	24	31	23	---	111	42	23	50	24	44	72
31	37	---	32	23	---	69	---	22	---	25	42	---
TOTAL	912	861	818	797	3925	1724	1389	1056	931	2203	3198	2061
MEAN	29.4	28.7	26.4	25.7	140	55.6	46.3	34.1	31.0	71.1	103	68.7
MAX	37	37	32	32	1660	163	79	71	50	973	458	375
MIN	24	24	23	23	25	32	32	22	21	17	22	28
CFSM	.12	.12	.11	.10	.57	.23	.19	.14	.13	.29	.42	.28
IN.	.14	.13	.12	.12	.59	.26	.21	.16	.14	.33	.48	.31

CAL YR 1976 TOTAL 31482 MEAN 86.0 MAX 3240 MIN 22 CFSM .35 IN 4.74
WTR YR 1977 TOTAL 19875 MEAN 54.5 MAX 1660 MIN 17 CFSM .22 IN 2.99

05420000 PLUM RIVER BELOW CARROLL CREEK NEAR SAVANNA, IL

LOCATION.--Lat 42°06'50", long 90°05'35", in NW¼SW¼ sec.31, T.25 N., R.4 E., Carroll County, Hydrologic Unit 07060005, on left bank 0.7 mi (1.1 km) upstream from Camp Creek, 2.6 mi (4.2 km) downstream from Carroll Creek, 3.5 mi (5.6 km) northeast of Savanna, and 13 mi (21 km) upstream from mouth.

DRAINAGE AREA.--230 mi² (596 km²).

PERIOD OF RECORD.--October 1940 to September 1977 (discontinued). Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 580.00 ft (176.784 m) above mean sea level.

REMARKS.--Records poor. Several observations of water temperature were made during the year.

COOPERATION.--One discharge measurement furnished by Corps of Engineers.

AVERAGE DISCHARGE.--37 years, 147 ft³/s (4.163 m³/s), 8.68 in/yr (220 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft³/s (329 m³/s) Jan. 6, 1946, gage height, 28.74 ft (8.760 m); maximum gage height, 31.1 ft (9.48 m) Feb. 20, 1971, backwater from ice; no flow Apr. 26, 27, 1952, May 12-14, 1954, backwater from Mississippi River; minimum during nonbackwater periods, 8.0 ft³/s (0.23 m³/s) for several days during August to October 1949.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,480 ft³/s (41.9 m³/s) Feb. 24, gage height, 22.41 ft (6.831 m); minimum daily, 11 ft³/s (0.31 m³/s) July 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	28	20	17	14	60	60	30	20	29	12	36
2	23	27	19	17	15	50	50	26	19	21	15	33
3	23	25	18	16	16	50	60	26	18	19	30	31
4	24	25	17	17	17	65	35	33	18	17	23	30
5	35	25	16	18	18	90	85	70	32	16	17	29
6	29	25	16	18	17	60	70	110	29	16	60	28
7	24	25	17	17	16	50	60	60	26	14	40	27
8	26	25	16	17	15	44	50	45	31	14	120	26
9	26	25	16	16	15	50	40	38	29	14	90	25
10	27	25	17	16	17	40	35	35	28	13	65	24
11	26	25	16	15	19	35	31	32	28	13	40	22
12	24	25	16	14	22	90	29	29	37	13	35	25
13	24	26	15	14	30	67	28	27	30	13	32	28
14	25	25	16	15	27	50	28	25	26	12	30	27
15	26	25	17	14	24	40	27	24	24	12	29	26
16	25	26	17	14	22	33	27	23	23	12	50	40
17	24	27	18	13	20	28	26	26	22	20	80	200
18	27	26	19	13	22	31	26	25	28	100	65	140
19	30	27	19	13	24	33	26	24	24	70	45	100
20	30	25	20	13	23	33	26	26	21	27	80	50
21	29	25	19	13	22	32	40	27	21	17	70	35
22	29	25	18	13	20	32	90	28	20	15	62	32
23	28	25	17	13	150	34	60	26	20	14	56	30
24	28	25	16	13	1400	32	50	26	23	13	51	160
25	27	27	18	14	600	29	41	22	21	13	47	100
26	27	27	20	14	200	28	36	23	20	13	42	45
27	26	27	20	14	100	28	23	21	19	12	41	50
28	25	27	19	13	70	45	40	20	19	12	45	42
29	25	25	19	13	---	220	36	21	27	12	80	39
30	27	21	18	12	---	140	33	27	40	11	50	36
31	29	---	18	13	---	100	---	26	---	11	38	---
TOTAL	826	766	546	452	2955	1719	1268	1001	743	609	1540	1574
MEAN	26.6	25.5	17.6	14.6	106	55.5	41.6	32.3	24.8	19.6	49.7	52.5
MAX	35	28	20	18	1400	220	90	110	40	100	120	200
MIN	23	21	15	12	14	28	23	20	18	11	12	22
CFSM	.12	.11	.08	.06	.46	.24	.18	.14	.11	.09	.22	.23
IN.	.13	.12	.09	.07	.48	.28	.20	.16	.12	.10	.25	.25

CAL YR 1976 TOTAL 25558 MEAN 69.8 MAX 2650 MIN 15 CFSM .30 IN 4.13
WTR YR 1977 TOTAL 13976 MEAN 38.3 MAX 1400 MIN 11 CFSM .17 IN 2.26

05420400 MISSISSIPPI RIVER AT DAM 13 NEAR FULTON, IL

LOCATION.--Lat 41°53'40", long 90°09'24", in NE¼NE¼ sec.16, T.22 N., R.3 E., Whiteside County, Hydrologic Unit 07080101, on downstream end of intermediate wingwall, dam 13, 2.1 mi (3.4 km) upstream from Fulton-Lyons bridge and at mile 522.4 (840.5 km) upstream from Ohio River.

DRAINAGE AREA.--85,600 mi² (221,700 km²), approximately.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1969 to current year.

INSTRUMENTATION.--Temperature recorder since June 1969.

REMARKS.--Mar. 8-14 records destroyed in processing; no record June 16-19, July 19, 20 due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 30.5°C July 15, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 30.5°C July 15; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	17.0	16.0	7.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	18.5	17.0	7.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	18.5	17.5	7.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	18.0	17.5	5.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	17.5	15.0	4.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	15.0	13.0	4.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	13.0	12.5	4.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	13.5	12.5	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---
9	13.5	13.0	3.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---
10	14.0	13.0	2.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---
11	14.0	13.0	2.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---
12	14.5	14.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---
13	14.5	13.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---
14	13.5	13.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---
15	13.5	11.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	5.5
16	11.5	9.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	4.0
17	10.5	9.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	4.5
18	10.5	10.0	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	3.5
19	10.0	9.0	2.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	3.5
20	9.0	7.5	2.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	4.0	3.0
21	8.5	7.5	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.0
22	7.5	6.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	1.5
23	7.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	3.0
24	7.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	3.5
25	7.0	6.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	4.0
26	7.0	7.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	5.0
27	7.0	6.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	6.5
28	6.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	7.0
29	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	10.0	8.5
30	6.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	11.0	9.5
31	7.0	6.5	---	---	0.0	0.0	0.0	0.0	---	---	9.5	8.0
MONTH	18.5	5.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0

05420400 MISSISSIPPI RIVER AT DAM 13 NEAR FULTON, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUS		SEPTEMBER	
1	9.5	7.5	17.0	16.0	23.5	22.0	24.0	22.5	25.0	23.5	24.5	24.0
2	11.0	9.0	17.5	17.0	24.0	22.5	24.5	23.0	25.0	24.0	24.0	23.5
3	10.0	8.5	17.0	16.5	23.5	22.0	24.5	23.5	25.5	24.5	24.0	23.0
4	9.5	8.0	17.0	16.5	24.0	22.5	27.0	24.5	25.5	25.0	24.0	22.5
5	8.0	6.5	19.0	17.0	25.0	23.5	27.5	26.0	25.0	24.5	24.5	23.0
6	7.5	5.5	19.0	18.5	25.0	22.5	28.5	27.5	24.5	24.0	24.5	23.0
7	9.0	6.5	18.5	17.5	23.0	22.0	29.0	28.0	25.0	24.0	24.5	23.5
8	8.5	7.0	19.5	18.0	22.5	21.5	28.5	26.5	25.0	24.5	24.0	23.0
9	9.0	7.5	18.0	17.0	22.0	21.0	27.5	26.0	24.5	24.5	24.0	22.5
10	11.0	9.0	19.0	17.5	22.0	20.5	27.0	26.0	26.5	24.5	22.5	21.0
11	13.0	10.0	21.0	18.5	22.0	21.0	27.5	26.5	26.0	24.0	22.0	21.5
12	13.0	12.0	20.5	19.0	22.0	21.0	28.5	27.0	24.5	23.5	22.0	20.5
13	14.0	12.5	21.5	20.0	21.0	20.5	28.5	27.0	24.5	24.0	20.5	20.5
14	14.5	13.5	22.5	20.5	22.5	20.5	29.0	27.0	24.0	23.0	21.0	20.0
15	15.5	14.0	22.5	21.5	23.5	21.5	30.5	28.0	24.5	23.5	21.0	19.0
16	17.5	15.0	23.5	22.5	---	---	29.0	28.0	24.0	23.5	19.0	19.0
17	17.0	16.0	23.5	22.5	---	---	28.0	26.0	23.5	22.5	19.5	19.0
18	18.0	16.5	24.5	23.0	---	---	26.0	25.0	23.5	22.0	20.5	19.5
19	18.0	17.0	25.5	24.0	---	---	---	---	23.0	22.0	20.5	19.0
20	19.5	18.0	25.0	24.0	24.5	24.0	---	---	22.0	21.5	19.0	18.5
21	19.0	17.5	24.5	23.5	24.5	23.5	27.5	26.0	23.0	21.5	19.0	18.0
22	18.0	16.5	24.5	23.5	24.0	23.0	27.5	25.0	22.5	21.5	18.5	18.0
23	18.0	16.0	24.5	23.0	24.0	23.0	26.5	25.5	23.0	22.0	19.0	18.0
24	18.0	16.0	25.0	23.5	25.0	23.0	27.0	26.0	22.5	21.0	19.0	18.0
25	16.5	15.5	26.5	23.5	26.0	24.0	26.5	26.0	22.0	21.5	18.5	18.0
26	17.0	15.0	26.0	25.0	26.5	24.5	25.5	25.0	22.5	21.5	18.5	17.5
27	17.5	15.5	25.5	24.5	27.0	25.0	26.0	24.5	24.5	22.5	18.0	17.0
28	17.5	14.5	26.0	24.5	26.5	26.0	25.0	24.5	23.5	23.5	18.0	16.5
29	16.5	14.5	26.5	25.0	25.5	23.5	26.5	24.5	23.5	22.5	18.0	17.0
30	17.0	15.5	25.5	24.5	25.0	24.0	27.0	25.0	24.0	23.0	17.5	17.0
31	---	---	25.5	25.0	---	---	26.0	24.0	24.5	23.5	---	---
MONTH	19.5	5.5	26.5	16.0	27.0	20.5	30.5	22.5	26.5	21.0	24.5	16.5
YEAR	30.5	0.0										

05420500 MISSISSIPPI RIVER AT CLINTON, IA

LOCATION.--Lat 41°46'53", long 90°15'04", in NW¼ sec.34, T.81 N., R.6 E., Clinton County, Hydrologic Unit 07080101, on right bank at foot of Seventh Avenue in Camanche, 5.0 mi (8.0 km) upstream from Wapsipinicon River, 6.4 mi (10.3 km) downstream from Clinton, 10.6 mi (17.1 km) downstream from dam 13, and at mile 511.8 (823.5 km) upstream from Ohio River. Prior to June 6, 1969, at site 400 ft (122 m) downstream.

DRAINAGE AREA.--85,600 mi² (221,700 km²), approximately, at Fulton-Lyons Bridge where discharge measurements are made.

PERIOD OF RECORD.--June to August 1873 (fragmentary), October 1873 to current year (October 1932 to September 1939, published as "at Le Claire").

REVISED RECORDS.--WDR IA-75-1: 1974.

GAGE.--Water-stage recorder. Datum of gage is 562.68 ft (171.505 m) above mean sea level. Oct. 1, 1955, to June 5, 1969, water-stage recorder at site 400 ft (122 m) downstream at same datum. Auxiliary water-stage recorder at dam 13 since Oct. 1, 1958. See WSP 1728 for history of changes prior to Oct. 1, 1955.

REMARKS.--Records good except those for winter period, which are poor. Minor flow regulation caused by navigation dams.

COOPERATION.--Five discharge measurements and discharge data at Lock and Dam No. 13 furnished by Corps of Engineers.

AVERAGE DISCHARGE.--104 years, 47,045 ft³/s (1,332 m³/s), 7.46 in/yr (189 mm/yr), 34,080,000 acre-ft/yr (42,020 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 307,000 ft³/s (8,690 m³/s) Apr. 28, 1965; maximum gage height, 24.65 ft (7.513 m) Apr. 28, 1965; minimum daily discharge, 6,500 ft³/s (184 m³/s) Dec. 25-27, 1933.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1828, that of Apr. 28, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 50,800 ft³/s (1,440 m³/s) July 19; maximum gage height, 10.66 ft (3.249 m) July 19; minimum daily discharge, 9,600 ft³/s (272 m³/s) Dec. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14900	18200	10800	12300	11100	26000	37900	38600	19900	26400	16400	19400
2	14300	18400	10100	12400	11200	24500	37300	35100	20800	25600	16900	20600
3	13900	19000	9800	11900	11500	23700	39700	30700	21100	24500	12600	28800
4	14300	18100	9700	11800	12000	24800	41400	24100	21100	24000	16200	32600
5	12100	18700	9600	11600	12800	24300	45700	25300	20300	24300	17400	34400
6	15100	17600	9800	11300	13200	23800	47200	25700	20900	23300	18000	37400
7	15200	16400	10000	11700	13600	24000	46800	26600	24700	22200	16800	35200
8	17100	15200	10100	11500	13800	23000	44200	24800	27200	25000	20500	33900
9	16900	14600	10200	11400	14000	25100	41000	24200	29600	28600	20100	33600
10	16600	14600	10300	11300	14200	27800	38100	22800	30000	29400	21200	33300
11	17100	14000	10300	11300	14800	30100	37500	22500	27500	29200	22800	32900
12	16200	14800	10200	11200	15600	36900	34500	22300	24700	28900	21000	31000
13	15200	15600	10200	11200	16900	42400	29300	20900	20400	28100	17800	30900
14	18600	15900	10200	11200	18100	41800	24700	19300	17100	26900	12400	31900
15	17400	15800	10400	11200	18500	41200	23800	18200	17000	22600	11800	24900
16	16100	16200	10800	11400	18900	43400	24300	17900	17500	19800	13100	30000
17	15600	17100	11800	11600	19000	43300	26300	17900	17600	19200	14500	26900
18	15500	15600	12800	11800	19000	45100	26700	18200	23100	31100	14900	26100
19	15900	14900	13600	11900	19000	47900	31000	20100	25600	50800	14200	27800
20	17200	14400	14200	12000	19200	45500	34400	23300	25900	38900	12000	27700
21	18000	14200	14700	12000	19700	43300	37000	25200	25900	25100	12600	24900
22	16600	14000	14200	12000	19500	41800	41200	28000	24300	20400	13300	22900
23	15200	13400	13800	11700	22600	39100	43200	25700	23500	18700	13600	23600
24	15400	12700	12000	11300	31800	35000	43300	25400	22500	17400	13200	30700
25	15800	11200	10800	11300	40500	28800	42800	23400	22200	15100	10500	32800
26	14900	9700	10600	11700	36800	28700	42900	21600	22400	20900	9660	35700
27	15900	10000	10800	11300	31100	29300	43000	19800	21200	20500	10500	38500
28	17700	10500	11000	12000	28700	32300	41700	18100	21400	21100	11800	40200
29	17300	10900	11500	12100	---	40100	41700	17400	22600	18800	14700	41700
30	16400	10500	11800	12100	---	47500	41000	17300	23800	16000	17000	45000
31	16500	---	12200	11700	---	43900	---	18500	---	17600	18700	---
TOTAL	494900	442200	348300	361200	537100	1074400	1129600	718900	681800	760400	476160	935300
MEAN	15960	14740	11240	11650	19180	34660	37650	23190	22730	24530	15360	31180
MAX	18600	19000	14700	12400	40500	47900	47200	38600	30000	50800	22800	45000
MIN	12100	9700	9600	11200	11100	23000	23800	17300	17000	15100	9660	19400
CFSM	.19	.17	.13	.14	.22	.41	.44	.27	.27	.29	.18	.36
IN.	.22	.19	.15	.16	.23	.47	.49	.31	.30	.33	.21	.41
AC-FT	981600	877100	690900	716400	1065000	2131000	2241000	1426000	1352000	1508000	944500	1855000

CAL YR 1976 TOTAL 12641800 MEAN 34540 MAX 154000 MIN 9600 CFSM .40 IN 5.49 AC-FT 25070000
WTR YR 1977 TOTAL 7960260 MEAN 21810 MAX 50800 MIN 9600 CFSM .26 IN 3.46 AC-FT 15790000

05422400 MISSISSIPPI RIVER AT DAM 14 NEAR HAMPTON, IL

LOCATION.--Lat 41°34'25", long 90°24'09", Rock Island County, Hydrologic Unit 07080101, on right side of dam 14, 2 mi (3 km) downstream from I-80 bridge and at mile 493.2 (793.6 km) above Ohio River.

DRAINAGE AREA.--88,400 mi² (229,000 km²), approximately.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1973 to September 1977 (discontinued).

INSTRUMENTATION.--Water-quality monitor since June 1973.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 30.0°C July 10, 19-21, 1974, July 4, Aug. 1, 1975, July 15, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 30.0°C July 15; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.5	16.0	17.0	7.5	7.0	7.0	0.5	0.0	0.5	0.0	0.0	0.0
2	19.0	17.0	18.0	7.5	7.0	7.0	1.0	0.0	0.5	0.0	0.0	0.0
3	19.0	17.5	18.5	7.0	6.5	7.0	0.5	0.0	0.0	0.0	0.0	0.0
4	18.5	18.0	18.0	6.5	6.0	6.5	0.5	0.0	0.5	0.0	0.0	0.0
5	18.0	17.0	17.5	6.0	5.5	6.0	0.5	0.0	0.5	0.0	0.0	0.0
6	17.0	16.5	16.5	5.5	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
7	16.5	15.5	16.0	5.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
8	15.5	15.0	15.5	4.5	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
9	15.0	14.0	14.5	4.5	4.0	4.0	0.5	0.0	0.0	0.0	0.0	0.0
10	14.0	13.5	13.5	4.0	3.5	4.0	0.5	0.0	0.0	0.0	0.0	0.0
11	13.5	13.0	13.5	3.5	3.5	3.5	0.5	0.0	0.5	0.0	0.0	0.0
12	14.5	13.5	14.0	3.5	3.0	3.0	0.5	0.0	0.5	0.0	0.0	0.0
13	14.5	14.0	14.5	3.0	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
14	14.5	14.0	14.0	3.0	2.5	3.0	0.5	0.0	0.5	0.0	0.0	0.0
15	14.5	13.5	14.0	3.0	2.0	2.5	0.5	0.0	0.0	0.0	0.0	0.0
16	13.5	13.0	13.5	2.5	1.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0
17	13.0	12.0	12.5	2.5	2.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0
18	12.0	11.0	11.5	3.0	2.5	2.5	0.5	0.0	0.0	0.0	0.0	0.0
19	11.0	10.0	10.5	3.0	2.5	3.0	0.5	0.0	0.0	0.0	0.0	0.0
20	10.0	9.0	9.5	3.0	3.0	3.0	0.5	0.0	0.0	0.0	0.0	0.0
21	9.0	9.0	9.0	3.0	2.5	3.0	0.0	0.0	0.0	0.5	0.0	0.0
22	9.0	8.5	8.5	2.5	2.5	2.5	0.0	0.0	0.0	0.5	0.0	0.0
23	8.5	7.5	8.0	2.5	2.0	2.0	0.0	0.0	0.0	0.5	0.0	0.0
24	8.0	7.5	7.5	2.0	1.5	2.0	0.0	0.0	0.0	0.5	0.0	0.0
25	7.5	7.0	7.5	2.0	1.5	2.0	0.0	0.0	0.0	0.5	0.0	0.5
26	7.5	7.0	7.5	2.0	2.0	2.0	0.0	0.0	0.0	0.5	0.0	0.0
27	7.5	7.0	7.5	2.0	2.0	2.0	0.0	0.0	0.0	0.5	0.0	0.0
28	7.5	7.0	7.0	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
29	7.5	7.0	7.0	1.0	0.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
30	7.0	7.0	7.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
31	7.5	7.0	7.0	---	---	---	0.0	0.0	0.0	0.5	0.0	0.0
MONTH	19.0	7.0	12.0	7.5	0.0	3.5	1.0	0.0	0.0	0.5	0.0	0.0

05422400 MISSISSIPPI RIVER AT DAM 14 NEAR HAMPTON, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.5	0.0	0.0	0.5	0.0	0.5	9.0	8.5	9.0	17.0	16.0	16.5
2	0.5	0.0	0.5	1.0	0.5	0.5	10.0	9.0	9.5	17.0	17.0	17.0
3	0.5	0.5	0.5	1.0	0.5	1.0	10.5	9.5	10.0	17.0	16.5	17.0
4	0.5	0.5	0.5	1.0	1.0	1.0	10.0	9.0	9.5	17.0	16.5	17.0
5	0.5	0.5	0.5	1.5	0.5	1.0	9.0	8.0	8.5	17.5	16.5	17.0
6	0.5	0.0	0.5	1.5	0.5	1.0	8.0	7.5	7.5	18.0	17.5	18.0
7	0.5	0.0	0.5	2.0	0.5	1.0	8.0	7.0	7.5	19.5	17.5	18.5
8	0.5	0.0	0.5	2.0	1.0	1.5	9.0	8.0	8.5	19.5	18.5	19.0
9	0.5	0.0	0.5	3.0	2.0	2.5	9.5	8.5	9.0	19.0	17.5	18.0
10	1.5	0.5	1.0	3.0	2.5	2.5	10.5	9.5	10.0	19.0	17.5	18.5
11	2.0	1.5	1.5	3.0	2.5	2.5	12.0	10.5	11.5	19.0	18.0	18.5
12	2.0	1.5	1.5	3.0	2.5	3.0	13.5	12.0	12.5	20.5	18.5	19.5
13	1.5	1.0	1.5	3.5	3.0	3.5	14.5	13.0	13.5	21.5	19.5	20.5
14	1.5	0.5	1.0	5.0	3.5	4.5	15.0	14.0	14.5	22.5	20.5	21.5
15	0.5	0.5	0.5	5.5	5.0	5.0	15.5	14.5	15.0	23.5	21.5	22.5
16	1.0	0.0	0.5	5.5	5.0	5.5	16.5	15.0	16.0	24.0	22.5	23.5
17	1.0	0.5	1.0	5.5	5.0	5.0	17.0	16.0	16.5	24.0	23.0	23.5
18	2.0	1.0	1.5	5.0	5.0	5.0	18.0	16.5	17.5	25.5	23.5	24.5
19	1.5	1.5	1.5	5.0	4.5	4.5	18.5	17.5	18.0	27.0	24.5	25.5
20	1.5	1.0	1.0	4.5	4.0	4.5	19.0	18.0	18.5	26.5	25.5	26.0
21	1.0	0.5	0.5	4.5	3.5	4.0	18.5	18.0	18.5	26.5	25.5	26.0
22	1.0	0.5	0.5	4.0	3.0	3.5	18.5	17.5	18.0	26.0	24.5	25.5
23	1.5	1.0	1.0	4.5	3.5	4.0	17.5	17.0	17.0	25.5	24.0	25.0
24	1.5	1.0	1.5	5.5	4.0	4.5	17.0	17.0	17.0	26.0	24.5	25.5
25	1.0	0.5	0.5	6.5	5.0	5.5	17.0	16.0	16.5	26.5	25.0	26.0
26	0.5	0.0	0.5	7.0	6.0	6.5	16.0	15.5	16.0	27.0	26.0	26.5
27	0.5	0.0	0.0	8.0	7.0	7.5	16.5	16.0	16.0	27.0	26.0	26.5
28	0.5	0.0	0.0	8.5	7.5	8.0	17.0	16.0	16.5	27.0	26.0	26.5
29	---	---	---	10.0	8.5	9.5	16.0	15.5	16.0	27.0	26.0	26.5
30	---	---	---	10.0	9.5	10.0	16.0	15.5	15.5	27.0	26.0	26.5
31	---	---	---	9.5	9.0	9.5	---	---	---	26.5	25.5	26.0
MONTH	2.0	0.0	1.0	10.0	0.0	4.0	19.0	7.0	13.5	27.0	16.0	22.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.0	25.0	25.5	25.0	24.5	25.0	27.0	26.0	26.5	24.5	24.0	24.0
2	25.5	24.5	25.0	25.0	24.5	24.5	27.0	26.0	26.5	24.5	24.0	24.0
3	25.0	23.5	24.0	25.0	23.5	24.0	26.5	26.0	26.0	24.0	23.5	24.0
4	25.0	23.5	24.0	27.0	24.5	25.5	26.0	25.0	25.5	24.0	23.5	24.0
5	25.5	24.5	25.0	27.5	26.0	26.5	25.5	25.0	25.5	24.0	24.0	24.0
6	26.0	25.0	25.5	29.0	27.0	28.0	25.5	25.0	25.5	24.5	24.0	24.5
7	25.5	24.0	24.5	29.0	28.5	29.0	25.5	25.0	25.5	24.5	24.0	24.5
8	24.5	22.5	23.5	29.0	29.0	29.0	25.0	24.5	25.0	24.5	24.0	24.5
9	23.0	22.0	22.5	29.0	28.5	28.5	25.5	24.5	25.0	24.0	23.5	24.0
10	22.5	22.0	22.0	28.5	27.0	28.0	26.0	25.0	25.5	23.5	22.5	23.0
11	23.0	22.0	22.5	27.5	27.0	27.0	25.5	25.0	25.5	22.5	22.0	22.0
12	22.5	21.5	22.0	28.0	27.0	27.5	26.0	24.5	25.5	22.0	21.5	21.5
13	22.0	21.0	21.5	29.0	28.0	28.5	25.5	24.5	25.0	21.5	21.0	21.5
14	22.5	21.0	21.5	29.5	28.5	29.0	25.0	24.5	24.5	21.0	20.5	20.5
15	23.5	21.5	22.5	30.0	28.5	29.5	25.0	24.0	24.5	20.5	19.5	20.0
16	23.5	22.0	23.0	29.5	29.0	29.5	25.0	24.5	24.5	20.0	19.5	20.0
17	25.0	23.5	24.0	29.5	28.0	28.5	24.5	24.0	24.0	20.0	19.0	19.5
18	25.5	24.5	25.0	28.0	27.5	27.5	24.0	24.0	24.0	20.5	19.5	20.0
19	26.0	25.0	25.5	27.5	26.5	27.0	24.0	23.0	23.5	20.5	19.5	20.0
20	25.5	25.0	25.5	28.0	27.0	27.5	23.0	22.5	23.0	20.0	19.0	19.5
21	25.5	25.0	25.0	28.5	28.5	28.5	23.0	22.5	22.5	19.0	18.5	19.0
22	25.0	24.5	25.0	29.0	27.5	28.5	23.0	22.0	22.5	18.5	18.0	18.5
23	25.0	24.5	24.5	29.0	28.0	28.5	23.0	22.5	22.5	18.5	18.0	18.5
24	25.5	24.5	25.0	28.0	27.5	28.0	23.5	22.5	23.0	19.0	18.5	18.5
25	26.0	25.0	25.5	28.0	27.0	27.5	23.5	22.0	22.5	19.0	18.5	18.5
26	27.0	25.5	26.0	28.0	26.5	27.0	23.0	22.5	23.0	19.0	18.5	18.5
27	27.5	26.0	27.0	27.0	26.0	26.5	24.0	22.5	23.5	18.5	18.5	18.5
28	27.0	26.5	27.0	26.5	26.0	26.0	24.0	23.5	23.5	18.5	18.0	18.0
29	27.0	26.5	26.5	26.5	26.0	26.0	24.0	23.0	23.5	18.5	18.0	18.0
30	26.5	25.5	26.0	27.5	26.0	26.5	24.5	23.5	24.0	18.5	18.0	18.0
31	---	---	---	27.0	26.0	26.5	24.5	24.0	24.0	---	---	---
MONTH	27.5	21.0	24.5	30.0	23.5	27.5	27.0	22.0	24.5	24.5	18.0	21.0
YEAR	30.0	0.0	13.0									

05435500 PECATONICA RIVER AT FREEPORT, IL

LOCATION.--Lat 42°18'13", long 89°36'57", in SE¼ sec.30, T.27 N., R.8 E., Stephenson County, Hydrologic Unit 07090003, on right bank on property of Commonwealth Edison Company at Freeport, 0.3 mi (0.5 km) upstream from Stephenson Street Bridge and 5 mi (8 km) upstream from Yellow Creek.

DRAINAGE AREA.--1,326 mi² (3,434 km²).

PERIOD OF RECORD.--September 1914 to current year.

REVISED RECORDS.--WSP 1175: 1944, 1948. WSP 1508: 1915(M), 1917(M), 1921(M), 1924(M), 1928(M), 1930(M), 1935-37. WDR IL-73: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 743.18 ft (226.521 m) above mean sea level. Prior to Jan. 15, 1935, nonrecording gage at site 0.9 mi (1.4 km) downstream at datum 4.2 ft (1.280 m) lower. Since July 13, 1943, auxiliary nonrecording gage read once daily 0.9 mi (1.4 km) downstream.

REMARKS.--Records good except those for winter periods, which are poor. Some diurnal regulation by powerplants above station. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--63 years, 887 ft³/s (25.1 m³/s), 9.08 in/yr (231 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,400 ft³/s (521 m³/s) Mar. 16, 1929, gage height, 19.76 ft (6.023 m), site and datum then in use; minimum, 82 ft³/s (2.32 m³/s) Dec. 11, 1957, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,180 ft³/s (61.7 m³/s) July 25, gage height, 10.50 ft (3.200 m); minimum daily, 180 ft³/s (5.10 m³/s) Jan. 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	295	337	265	190	205	1700	918	371	337	298	416	416
2	293	353	260	190	205	1500	734	360	341	323	392	393
3	289	354	250	195	210	1100	611	350	316	342	385	380
4	279	332	230	200	230	803	613	347	296	315	379	380
5	292	319	230	200	240	800	695	380	296	289	386	375
6	309	314	240	205	235	950	730	402	331	275	496	369
7	317	310	230	210	230	1050	730	399	381	272	532	362
8	340	302	225	205	225	950	664	372	438	262	784	358
9	335	306	220	205	230	850	573	346	402	263	1390	351
10	313	311	220	200	240	800	504	334	346	287	1380	341
11	305	310	215	195	250	750	455	327	339	282	1170	333
12	310	315	215	190	270	719	429	320	370	268	863	329
13	313	290	210	195	280	725	418	315	377	283	641	335
14	303	265	210	190	290	745	413	312	370	279	526	343
15	297	274	210	190	280	751	396	305	346	280	472	343
16	296	308	210	185	260	669	388	306	321	275	484	346
17	294	338	215	180	250	577	370	305	306	303	672	346
18	294	333	220	180	260	529	369	303	300	660	658	396
19	297	337	230	185	270	501	362	303	302	1490	590	458
20	308	326	235	190	260	494	360	308	298	1780	529	488
21	305	312	240	190	250	495	402	308	290	1850	477	453
22	307	311	230	190	270	492	512	317	281	1930	456	405
23	313	309	210	195	350	484	610	336	273	2020	450	380
24	317	259	200	205	800	465	596	357	271	2110	435	434
25	311	339	200	210	1100	443	498	331	275	2160	421	665
26	319	370	200	215	1400	426	423	304	275	1760	411	906
27	320	364	200	220	1600	419	391	294	273	1110	399	953
28	321	306	200	215	1650	460	397	288	267	746	405	737
29	311	264	195	215	---	686	401	281	265	588	497	559
30	312	270	195	210	---	977	388	288	265	504	511	497
31	322	---	190	210	---	1060	---	325	---	458	451	---
TOTAL	9537	9438	6800	6145	12340	23365	15350	10195	9548	24062	18058	13431
MEAN	308	315	219	198	441	754	512	329	318	776	583	448
MAX	340	370	265	220	1650	1700	918	402	438	2160	1390	953
MIN	279	259	190	180	205	419	360	281	265	262	379	329
CFSM	.23	.24	.17	.15	.33	.57	.39	.25	.24	.59	.44	.34
IN.	.27	.26	.19	.17	.35	.66	.43	.29	.27	.68	.51	.38

CAL YR 1976 TOTAL 214608 MEAN 586 MAX 3450 MIN 190 CFSM .44 IN 6.02
WTR YR 1977 TOTAL 158269 MEAN 434 MAX 2160 MIN 180 CFSM .33 IN 4.44

05437500 ROCK RIVER AT ROCKTON, IL

LOCATION.--Lat 42°26'55", long 89°04'11", in SW¼NE¼ sec.24, T.46 N., R.1 E., Winnebago County, Hydrologic Unit 07090005, on right bank 750 ft (229 m) downstream from State Highway 75 in Rockton, 1.0 mi (1.6 km) downstream from Pecatonica River.

DRAINAGE AREA.--6,363 mi² (16,480 km²).

PERIOD OF RECORD.--June 1903 to July 1906, October 1906 to March 1909, July 1914 to September 1919, October 1939 to current year. Published as "below mouth of Pecatonica River at Rockton" 1903-09; as "at Rockford" 1914-19. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 325: 1903-9. WSP 895: 1904(M). WSP 1508: 1915, 1916-17(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 707.94 ft (215.780 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1906, nonrecording gage at same site at datum about 1 ft (0.30 m) higher. Oct. 1, 1906, to Mar. 31, 1909, nonrecording gage at same site at datum about 2 ft (0.6 m) higher. July 30, 1914, to Apr. 30, 1919, nonrecording gage at site at Rockford about 21 mi (34 m) downstream, at different datum. Oct. 1, 1939, to Aug. 10, 1973, at site 800 ft (244 m) upstream at same datum.

REMARKS.--Records good except those for period of no gage-height record, Dec. 22 to Mar. 8, which are poor. Low flow regulated by powerplant above station. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--45 years (water years 1904-5, 1915-19, 1940-77), 3,847 ft³/s (108.9 m³/s), 8.21 in/yr (209 mm/yr), discharge for site at Rockford adjusted for difference in drainage area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,500 ft³/s (920 m³/s) Mar. 30, 1916, gage height, 13.06 ft (3.981 m), site and datum then in use; minimum daily, 501 ft³/s (14.2 m³/s) Sept. 14, 1958.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Feburary 1937 reached a stage of 14.6 ft (4.45 m), backwater from ice, from painted floodmark.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,400 ft³/s (153 m³/s) Feb. 26; maximum gage height, 5.80 ft (1.768 m) Feb. 26, backwater from ice; minimum daily discharge, 880 ft³/s (24.9 m³/s) Jan. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1130	1300	1310	970	980	4440	4400	2480	1250	1170	2160	2050
2	1110	1400	1380	960	1000	4300	4540	2340	1210	1020	2000	1900
3	1060	1300	1380	950	1000	4100	4370	2160	942	1070	2050	1800
4	1100	1400	1390	940	1000	3850	4190	2200	1090	1160	1850	1800
5	1310	1440	1380	920	1030	3350	4450	2110	1270	1160	1880	1800
6	1380	1410	1360	960	1050	2600	4270	2110	1310	1150	1970	1750
7	1440	1340	1410	980	1050	2700	4330	2070	1350	987	1960	1700
8	1400	1440	1360	970	1040	3150	4470	2000	1140	987	2520	1700
9	1370	1800	1530	960	1060	3590	4280	1960	1310	1060	3370	1650
10	1370	1130	1400	930	1200	3380	4120	1870	1470	1040	3690	1600
11	1300	1060	1260	920	1300	3170	3790	1840	1220	946	3160	1600
12	1220	1420	1390	920	1400	3220	3470	1650	1350	1030	2680	1550
13	1160	1380	1370	930	1450	3180	3690	1610	1390	1020	2460	1600
14	1080	1350	1320	950	1500	3250	3590	1440	1460	1010	2370	1650
15	1180	1250	1350	940	1450	3270	3420	1450	1450	967	2390	1610
16	1220	1330	1340	900	1350	3130	3210	1450	1380	1020	2540	1650
17	1080	1390	1310	880	1300	3040	3170	1400	1390	967	2620	1610
18	1230	1400	1330	900	1350	3190	2960	1460	1370	1480	2640	1820
19	1250	1410	1320	940	1400	3000	2990	1350	1300	2660	2420	1970
20	1250	1410	1320	960	1350	2960	2890	1190	1270	2760	2400	1880
21	1260	1410	1140	980	1300	2830	2950	1250	1180	2850	2390	1900
22	1290	1410	1250	980	1400	2920	3060	1220	1240	3040	2360	1910
23	1250	1320	1200	1000	1800	2750	3180	1380	1200	3450	2360	1870
24	1260	1350	1150	1050	2600	2750	3340	1300	1190	3560	2360	1950
25	1270	1390	1200	1100	4400	2820	3240	1350	1200	3630	2120	1970
26	1240	1410	1280	1120	5400	2560	3060	1290	1230	3870	2170	2080
27	1280	1540	1200	1150	5200	2660	2810	1240	1110	3790	1900	2480
28	1300	1430	1120	1100	4800	2660	2810	1190	1120	3170	1930	2690
29	1330	1200	1050	1080	---	3350	2700	1170	1010	2740	2280	2680
30	1250	1150	1000	1050	---	3820	2620	1160	1040	2500	2370	2680
31	1150	---	980	1000	---	4200	---	1220	---	2260	2270	---
TOTAL	38520	40970	39780	30390	51160	100190	106370	49910	37442	59524	73640	56900
MEAN	1243	1366	1283	980	1827	3232	3546	1610	1248	1920	2375	1897
MAX	1440	1800	1530	1150	5400	4440	4540	2480	1470	3870	3690	2690
MIN	1060	1060	980	880	980	2560	2620	1160	942	946	1850	1550
CFSM	.20	.22	.20	.15	.29	.51	.56	.25	.20	.30	.37	.30
IN.	.23	.24	.23	.18	.30	.59	.62	.29	.22	.35	.43	.33

CAL YR 1976 TOTAL 1151668 MEAN 3147 MAX 15200 MIN 948 CFSM .50 IN 6.73
WTR YR 1977 TOTAL 684796 MEAN 1876 MAX 5400 MIN 880 CFSM .30 IN 4.00

05437720 ROCKFORD DRAINAGE DITCH AT 26TH STREET AT ROCKFORD, IL

LOCATION.--Lat 42°14'43", long 89°02'58", in SE¼NW¼ sec.31, T.44 N., R.2 E., Winnebago County, Hydrologic Unit 07090005, on left bank 300 ft (91 m) upstream from 25th Street bridge in Rockford, 3.2 mi (5.2 km) upstream from mouth.

DRAINAGE AREA.--1.14 mi² (2.95 km²).

PERIOD OF RECORD.--September 1977.

INSTRUMENTATION.--Automatic water sampler since August 1977.

REMARKS.--Unpublished records of rainfall during August and September 1977 are available in files of district office.

WATER QUALITY DATA, SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)
SEP												
17...	0950	--	40	39	--	32	3.3	35	.13	.74	.87	3.9
17...	0955	--	45	29	--	24	3.7	37	.19	.75	.94	4.2
17...	1000	--	70	23	--	19	3.0	12	.16	.68	.84	3.7
17...	1005	--	50	25	--	21	3.0	24	.14	.94	1.1	4.8
17...	1010	--	70	25	--	21	2.0	27	.11	2.3	2.4	11
30...	2025	140	280	69	0	57	13	24	.18	3.9	4.1	18
30...	2035	60	100	40	0	33	4.1	0	.41	1.5	1.9	8.5
30...	2045	104	65	40	0	33	2.5	9	.42	1.2	1.6	7.2
30...	2105	86	50	20	0	16	3.2	56	.48	.83	1.3	5.8
30...	2135	68	35	20	0	16	2.1	36	.54	.60	1.1	5.0
30...	2150	45	40	0	0	0	1.9	48	.40	.86	1.3	5.6
30...	2210	53	30	23	0	19	2.3	16	.27	.35	.62	2.7
30...	2225	69	40	14	0	11	2.1	27	.38	.33	.71	3.1

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)
SEP											
17...	.17	30	0	10	9	560	13	20	.8	10	--
17...	.20	0	0	10	17	790	75	40	.7	10	--
17...	.13	0	0	20	13	560	41	30	.5	9.2	--
17...	.19	0	0	30	14	810	260	40	.6	7.8	--
17...	.17	0	0	40	16	1200	11	40	.5	11	--
30...	1.7	70	0	<10	44	5600	600	240	<.5	21	7
30...	1.4	5	0	<10	20	5000	500	220	<.5	18	6
30...	1.0	30	0	<10	5	390	0	30	<.5	15	3
30...	.67	70	0	<10	48	2500	44	100	<.5	13	1
30...	.98	0	0	10	5	1800	0	50	<.5	11	0
30...	.34	20	0	<10	17	1100	13	50	<.5	9.4	0
30...	.19	30	0	<10	6	460	0	30	<.5	10	--
30...	.17	110	0	<10	11	1300	7	50	<.5	9.7	0

05438250 COON CREEK AT RILEY, IL

LOCATION.--Lat 42°10'58", long 88°38'28", in SE¼SW¼ sec.22, T.43 N., R.5 E., McHenry County, Hydrologic Unit 07090006, on left bank at downstream side of bridge on Riley-Harmony Road, 0.2 mi (0.3 km) upstream from Interstate Highway 90, 0.8 mi (1.3 km) southwest of Riley, and at mile 13.40 (21.56 km).

DRAINAGE AREA.--85.1 mi^2 (220.4 km^2).

PERIOD OF RECORD.--August 1961 to current year.

REVISED RECORDS.--WSP 2114: 1962(P), 1965(P). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 792.96 ft (241.694 m) above mean sea level.

REMARKS.--Records good except those for period of no gage-height record, Nov. 30 to Apr. 21, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--16 years, 59.8 ft^3/s (1.694 m^3/s), 9.54 in/yr (242 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,020 ft^3/s (85.5 m^3/s) Apr. 22, 1973, gage height, 8.46 ft (2.579 m); minimum, 0.70 ft^3/s (0.020 m^3/s) Oct. 23, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 134 ft^3/s (3.79 m^3/s) June 30, gage height, 3.29 ft (1.003 m), no peak above base of 400 ft^3/s (11 m^3/s); maximum gage height, 4.35 ft (1.326 m), from floodmark, Feb. 24, backwater from ice; minimum daily discharge, 2.8 ft^3/s (0.079 m^3/s) Jan. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	8.7	7.5	5.4	3.6	14	48	20	29	61	6.8	9.9
2	6.9	8.7	7.4	5.2	3.8	13	42	18	22	29	6.6	13
3	6.4	8.2	7.4	5.2	3.6	14	38	17	18	21	6.4	13
4	6.5	8.2	7.2	5.4	3.4	23	35	19	16	17	6.2	11
5	11	8.2	7.2	5.4	3.3	35	40	76	56	15	6.2	9.7
6	16	8.2	7.0	5.4	3.3	28	44	70	54	13	9.3	8.4
7	10	8.1	7.0	5.1	3.5	26	38	50	36	12	9.3	7.6
8	9.2	7.9	6.8	4.9	3.7	28	34	39	31	12	28	7.2
9	8.7	8.3	6.8	4.7	4.0	30	30	33	26	12	33	6.8
10	8.6	8.2	6.7	4.5	4.5	29	27	29	23	10	20	6.6
11	8.2	8.1	7.0	4.3	5.0	28	25	26	41	9.8	16	6.6
12	8.1	7.7	7.0	4.0	5.2	35	23	23	39	9.8	16	7.5
13	7.9	7.8	7.0	3.8	5.1	42	22	22	32	9.3	13	8.0
14	7.8	8.2	6.7	3.6	4.9	34	22	20	26	8.6	11	8.5
15	7.6	8.7	6.4	3.3	4.7	29	21	19	22	8.0	9.6	12
16	7.6	8.7	6.0	3.0	4.5	24	21	19	19	9.3	10	18
17	7.7	8.2	6.0	2.8	4.4	21	20	27	18	9.3	10	19
18	7.8	7.7	6.2	2.9	4.2	20	19	25	18	20	10	43
19	8.5	7.7	7.0	3.0	4.0	19	18	20	15	17	9.8	53
20	8.2	7.7	7.7	3.2	3.9	18	19	18	14	11	9.8	37
21	8.2	7.7	7.3	3.3	4.0	20	21	17	13	11	9.8	28
22	8.2	8.7	6.9	3.4	7.0	22	22	20	13	10	9.6	24
23	8.3	12	6.4	3.5	15	27	21	16	12	9.8	9.3	22
24	8.9	9.3	6.2	3.6	30	25	19	15	12	9.3	9.3	32
25	8.9	8.2	6.0	3.5	22	22	18	14	11	9.8	8.0	39
26	8.6	8.2	6.1	3.5	19	21	17	13	10	9.3	7.2	51
27	8.3	7.7	6.3	3.3	17	22	15	13	9.8	9.3	6.5	59
28	9.1	7.2	6.2	3.3	15	26	23	16	9.8	9.3	11	42
29	8.3	7.8	5.8	3.3	---	40	25	58	9.3	7.6	19	34
30	8.7	7.6	5.6	3.3	---	70	21	31	62	7.4	12	30
31	9.6	---	5.4	3.4	---	58	---	35	---	7.0	9.5	---
TOTAL	264.5	247.6	206.2	122.5	211.6	863	788	838	716.9	413.9	358.2	666.8
MEAN	8.53	8.25	6.65	3.95	7.56	27.8	26.3	27.0	23.9	13.4	11.6	22.2
MAX	16	12	7.7	5.4	30	70	48	76	62	61	33	59
MIN	6.4	7.2	5.4	2.8	3.3	13	15	13	9.3	7.0	6.2	6.6
CFSM	.10	.10	.08	.05	.09	.33	.31	.32	.28	.16	.14	.26
IN.	.12	.11	.09	.05	.09	.38	.34	.37	.31	.18	.16	.29

CAL YR 1976 TOTAL 20307.2 MEAN 55.5 MAX 1130 MIN 4.6 CFSM .65 IN 8.88
WTR YR 1977 TOTAL 5697.2 MEAN 15.6 MAX 76 MIN 2.8 CFSM .18 IN 2.49

05438500 KISHWAUKEE RIVER AT BELVIDERE, IL

LOCATION.--Lat 42°15'22", long 88°51'50", in SE¼SE¼ sec.27, T.44 N., R.3 E., Boone County, Hydrologic Unit 07090006, on left bank at Belvidere sewage-treatment plant, 1.3 mi (2.1 km) downstream from bridge on State Street in Belvidere and 3.0 mi (4.8 km) downstream from Piscasaw Creek.

DRAINAGE AREA.--538 mi² (1,393 km²).

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1175: 1946. WSP 1508: 1940, 1942-43, 1947(M). WSP 1728: 1940(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 738.34 ft (225.046 m) above mean sea level (Corps of Engineers bench mark). Sept. 29, 1939, to Sept. 30, 1942, nonrecording gage at site 1.3 mi (2.1 km) upstream at datum 3.99 ft (1.216 m) higher, and Oct. 1, 1942, to Sept. 30, 1973, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--38 years, 326 ft³/s (9.232 m³/s), 8.23 in/yr (209 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,300 ft³/s (292 m³/s) Mar. 16, 1943, gage height, 13.10 ft (3.993 m); minimum observed, 15 ft³/s (0.42 m³/s) Dec. 30, 1939, Jan. 7, 1940.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 24, 1938, reached a stage of 16.9 ft (5.15 m), backwater from ice, from information by sewage-treatment plant employees.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,980 ft³/s (56.1 m³/s) July 15, gage height, 5.64 ft (1.719 m), no peak above base of 2,400 ft³/s (68 m³/s); minimum daily, 34 ft³/s (0.96 m³/s) Jan. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	97	79	59	41	157	372	169	127	205	58	103
2	64	94	80	58	43	148	332	153	110	135	59	103
3	63	93	79	58	41	142	307	144	94	90	58	103
4	64	92	77	59	39	152	297	161	84	73	62	98
5	104	88	75	59	38	179	336	227	104	67	74	92
6	152	88	74	58	38	181	340	298	144	73	84	86
7	135	87	73	56	40	174	306	276	132	70	82	84
8	108	85	72	54	43	185	266	227	116	60	214	79
9	98	91	74	52	46	220	238	197	108	63	217	74
10	93	90	76	50	52	240	220	180	95	70	197	69
11	88	84	76	44	57	234	206	164	114	67	157	65
12	85	78	77	42	59	283	191	151	133	65	138	69
13	84	81	76	41	58	321	184	142	121	73	121	78
14	80	81	73	39	56	275	177	132	110	53	104	81
15	79	91	70	36	56	235	183	130	100	525	95	86
16	78	107	65	35	62	207	173	144	96	402	101	90
17	78	103	64	34	71	181	162	187	125	114	101	103
18	80	98	68	36	74	177	153	191	102	215	85	218
19	85	96	76	36	81	168	150	147	87	177	77	219
20	89	93	83	37	84	168	153	133	84	124	75	192
21	88	86	80	37	88	179	166	125	79	113	75	163
22	87	80	74	39	95	189	183	121	78	125	75	144
23	86	76	70	40	146	198	165	121	70	98	71	135
24	87	100	67	40	274	192	152	142	69	87	70	179
25	90	105	66	39	263	180	143	138	68	84	66	205
26	91	106	67	38	237	166	138	135	73	74	60	193
27	87	80	68	37	190	171	131	121	70	67	65	179
28	87	77	68	38	169	221	163	127	73	62	88	168
29	89	71	64	38	---	428	200	121	100	62	156	155
30	94	78	61	39	---	543	190	133	150	59	142	149
31	100	---	60	39	---	484	---	135	---	61	114	---
TOTAL	2759	2676	2232	1367	2541	6978	6377	4972	3016	3613	3141	3762
MEAN	89.0	89.2	72.0	44.1	90.8	225	213	160	101	117	101	125
MAX	152	107	83	59	274	543	372	298	150	525	217	219
MIN	63	71	60	34	38	142	131	121	68	53	58	65
CFSM	.17	.17	.13	.08	.17	.42	.40	.30	.19	.22	.19	.23
IN.	.19	.19	.15	.09	.18	.48	.44	.34	.21	.25	.22	.26

CAL YR 1976 TOTAL 123979 MEAN 339 MAX 5330 MIN 50 CFSM .63 IN 8.57
WTR YR 1977 TOTAL 43434 MEAN 119 MAX 543 MIN 34 CFSM .22 IN 3.00

05439500 SOUTH BRANCH KISHWAUKEE RIVER NEAR FAIRDALE, IL

LOCATION.--Lat 42°06'40", long 88°54'00", in SW¼SW¼ sec.16, T.42 N., R.3 E., De Kalb County, Hydrologic Unit 07090006, on left bank at upstream side of bridge on Irene Road, 1.2 mi (1.9 km) downstream from Owens Creek, 1.8 mi (2.9 km) northeast of Fairdale, and 9.5 mi (15.3 km) upstream from mouth.

DRAINAGE AREA.--387 mi² (1,002 km²).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1508: 1940, 1942(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 733.90 ft (223.693 m) above mean sea level (levels by Corps of Engineers). Prior to May 1, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--38 years, 241 ft³/s (6.825 m³/s), 8.46 in/yr (215 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,460 ft³/s (240 m³/s) Apr. 22, 1973, gage height, 10.22 ft (3.115 m); minimum, 2.1 ft³/s (0.059 m³/s) Jan. 20, 1940.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 11.9 ft (3.63 m) occurred in March 1937, from information by a local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 799 ft³/s (22.6 m³/s) June 30, gage height, 3.93 ft (1.198 m), no peak above base of 1,500 ft³/s (42 m³/s); minimum daily, 9.8 ft³/s (0.28 m³/s) Jan. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	38	17	13	12	34	172	48	86	417	23	104
2	15	26	17	13	12	32	155	42	63	225	26	123
3	15	22	17	12	12	32	144	42	46	133	54	108
4	17	22	17	12	11	36	133	55	37	92	39	92
5	31	20	16	12	11	54	164	233	79	71	33	82
6	59	20	16	12	11	68	150	313	174	58	65	71
7	76	22	16	12	11	64	133	237	137	49	45	74
8	38	19	16	12	12	62	114	174	108	44	192	61
9	27	19	16	12	13	73	95	137	89	42	430	50
10	24	23	16	11	14	95	82	117	71	34	243	43
11	19	23	17	11	15	117	72	104	146	29	169	39
12	18	20	17	11	15	145	66	94	155	28	197	39
13	19	21	17	10	15	227	62	87	104	26	155	49
14	19	22	16	10	14	153	56	82	86	25	113	72
15	19	27	15	10	14	114	52	79	68	24	86	67
16	16	27	15	9.9	15	91	52	72	58	25	78	113
17	17	22	15	9.8	17	82	47	71	58	27	81	137
18	18	19	16	9.9	18	76	43	76	123	182	64	278
19	19	21	17	10	19	74	43	63	99	234	53	450
20	19	20	18	10	20	71	47	56	69	129	47	328
21	23	17	17	10	21	72	48	54	55	84	54	237
22	23	21	16	10	23	93	47	52	47	61	54	192
23	19	14	16	11	39	97	53	53	40	46	49	164
24	20	19	15	11	89	97	49	44	37	40	46	200
25	20	21	15	11	78	91	43	43	34	35	41	285
26	21	20	14	11	58	88	43	39	32	32	35	313
27	19	21	15	11	45	88	42	34	29	29	34	302
28	18	16	14	11	38	112	50	33	28	27	94	234
29	19	19	14	11	---	318	67	34	26	24	313	195
30	25	18	13	11	---	335	56	53	309	24	189	169
31	24	---	13	11	---	239	---	68	---	23	125	---
TOTAL	732	639	489	341.6	672	3330	2380	2689	2493	2319	3227	4671
MEAN	23.6	21.3	15.8	11.0	24.0	107	79.3	86.7	83.1	74.8	104	156
MAX	76	38	18	13	89	335	172	313	309	417	430	450
MIN	15	14	13	9.8	11	32	42	33	26	23	23	39
CFSM	.06	.06	.04	.03	.06	.28	.21	.22	.22	.19	.27	.40
IN.	.07	.06	.05	.03	.06	.32	.23	.26	.24	.22	.31	.45

CAL YR 1976 TOTAL 85025.0 MEAN 232 MAX 4710 MIN 12 CFSM .60 IN 8.17
WTR YR 1977 TOTAL 23982.6 MEAN 65.7 MAX 450 MIN 9.8 CFSM .17 IN 2.31

05440000 KISHWAUKEE RIVER NEAR PERRYVILLE, IL

LOCATION.--Lat 42°11'45", long 88°59'55", in NE¼NE¼ sec.21, T.43 N., R.2 E., Winnebago County, Hydrologic Unit 07090006, on left bank at upstream side of bridge on Blackhawk Road, 1.4 mi (2.3 km) downstream from South Branch Kishwaukee River, 2 mi (3 km) southwest of Perryville, 7.1 mi (11.4 km) upstream from Killbuck Creek, and at mile 9.15 (14.72 km).

DRAINAGE AREA.--1,099 mi^2 (2,846 km^2).

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1175: 1941(P), 1942. WSP 1508: 1941, 1949. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 692.13 ft (210.961 m) above mean sea level (levels by Corps of Engineers). Prior to Apr. 30, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--38 years, 666 ft^3/s (18.86 m^3/s), 8.23 in/yr (209 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,400 ft^3/s (464 m^3/s) Jan. 6, 1946, gage height, 19.50 ft (5.994 m); maximum gage height, 19.65 ft (5.989 m) Apr. 22, 1973; minimum discharge, 46 ft^3/s (1.30 m^3/s) Oct. 6, 7, 10, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in January 1938 reached a stage of 23.85 ft (7.269 m), from information by the Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,340 ft^3/s (37.9 m^3/s) July 16, gage height, 7.39 ft (2.252 m), no peak above base of 3,300 ft^3/s (93 m^3/s); maximum gage height, 7.43 ft (2.265 m) Feb. 23, backwater from ice; minimum daily discharge, 73 ft^3/s (.07 m^3/s) Jan. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	166	130	101	84	243	722	286	227	575	105	250
2	118	166	135	100	87	229	594	261	232	446	111	250
3	115	153	130	100	88	230	547	241	195	318	126	254
4	115	149	128	100	84	241	496	240	166	239	134	228
5	176	146	126	99	80	279	517	409	231	194	139	230
6	238	142	122	98	78	284	578	711	339	166	174	205
7	270	140	120	96	80	276	537	639	359	149	173	190
8	212	136	120	94	87	281	475	514	306	137	362	180
9	183	144	121	91	94	336	420	422	261	130	663	163
10	169	151	124	90	100	382	374	372	223	125	544	146
11	163	151	130	87	105	405	332	338	260	124	416	137
12	153	139	127	83	109	482	311	307	359	124	384	140
13	146	129	125	81	108	621	299	279	305	115	347	156
14	146	131	122	78	106	526	282	263	254	102	280	176
15	137	133	120	76	109	420	280	254	215	111	228	183
16	130	148	118	74	117	360	276	254	192	696	229	201
17	127	169	117	73	126	321	263	279	196	203	219	254
18	133	157	117	74	133	298	248	271	366	589	202	479
19	144	152	119	76	141	286	240	271	267	551	178	674
20	149	149	128	79	148	282	238	242	210	366	168	582
21	148	147	126	80	156	285	252	226	177	262	163	474
22	146	141	120	81	165	315	285	215	159	247	171	400
23	146	121	118	82	290	330	275	205	150	202	163	360
24	141	133	115	82	500	334	258	219	143	176	155	444
25	147	187	116	82	440	314	240	205	139	164	143	563
26	144	176	118	80	370	298	229	184	131	148	143	547
27	143	170	120	79	305	293	222	163	117	136	137	562
28	135	135	118	78	271	329	247	150	107	126	156	486
29	134	130	112	78	---	570	295	163	105	121	434	420
30	144	128	106	79	---	961	313	260	284	114	420	382
31	159	---	102	81	---	931	---	250	---	114	309	---
TOTAL	4735	4419	3750	2632	4561	11742	10645	9093	6675	7270	7576	9694
MEAN	153	147	121	84.9	163	379	355	293	223	235	244	323
MAX	270	187	135	101	500	961	722	711	366	696	663	674
MIN	115	121	102	73	78	229	222	150	105	102	105	137
CFSM	.14	.13	.11	.08	.15	.35	.32	.27	.20	.21	.22	.29
IN.	.16	.15	.13	.09	.15	.40	.36	.31	.23	.25	.26	.33

CAL YR 1976 TOTAL 242152 MEAN 662 MAX 8940 MIN 85 CFSM .60 IN 8.20
WTR YR 1977 TOTAL 82792 MEAN 227 MAX 961 MIN 73 CFSM .21 IN 2.80

05441500 ROCK RIVER AT OREGON, IL

LOCATION.--Lat 42°01'00", long 89°19'44" (corrected), in SE¼NW¼ sec.3, T.23 N., R.10 E., Ogle County, Hydrologic Unit 07090005, on right bank, 0.25 mi (0.40 km) upstream from dam at Oregon, 0.4 mi (0.6 km) upstream from State Highway 64 bridge, 6 mi (10 km) downstream from Leaf River, and 110 mi (177 km) upstream from mouth.

DRAINAGE AREA.--8,205 mi² (21,250 km²).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1975 to September 1977 (discontinued).

INSTRUMENTATION.--Water-quality monitor since May 1975.

REMARKS.--Interruptions in the record due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 30.0°C July 8, 14, 1976; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	6.5	6.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
2	---	---	---	7.0	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0
3	---	---	---	6.5	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
4	---	---	---	6.0	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
5	---	---	---	5.0	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
6	14.5	14.0	14.0	4.5	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
7	13.5	13.0	13.5	4.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
8	13.5	12.5	13.0	3.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
9	13.0	12.0	12.5	3.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
10	14.5	12.0	12.5	3.5	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
11	13.0	12.0	12.5	3.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
12	14.5	12.5	13.5	2.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
13	14.0	13.0	13.5	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
14	14.0	13.0	13.5	1.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
15	13.5	12.0	12.5	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
16	12.0	11.0	11.5	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
17	10.5	9.5	10.0	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
18	9.5	9.0	9.5	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
19	9.0	8.5	9.0	3.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
20	8.5	8.0	8.0	3.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
21	8.0	7.0	7.5	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
22	7.0	6.5	6.5	2.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
23	6.0	6.0	6.0	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
24	7.0	6.0	6.5	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
25	7.0	6.5	7.0	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
26	7.5	6.5	7.0	3.5	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
27	7.0	6.0	6.5	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
28	6.0	5.5	6.0	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
29	6.0	5.5	5.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
30	6.0	5.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	7.0	6.0	6.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	14.5	5.5	9.5	7.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0

05441500 ROCK RIVER AT OREGON, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	0.5	0.0	0.0	10.0	9.5	9.5	15.5	13.5	14.5
2	0.0	0.0	0.0	0.0	0.0	0.0	10.5	10.0	10.5	16.5	14.0	15.5
3	0.0	0.0	0.0	0.0	0.0	0.0	11.0	10.5	10.5	17.0	15.0	16.5
4	0.0	0.0	0.0	1.0	0.0	0.5	10.5	9.0	10.0	17.5	16.0	17.0
5	0.0	0.0	0.0	1.5	1.0	1.0	9.0	7.5	8.5	16.5	15.5	16.5
6	0.0	0.0	0.0	1.5	1.0	1.5	8.0	7.5	7.5	16.0	15.5	16.0
7	0.0	0.0	0.0	2.5	1.5	2.0	8.5	7.5	8.0	19.0	16.0	18.0
8	0.0	0.0	0.0	4.0	2.0	3.0	9.5	8.5	9.0	18.5	17.0	18.0
9	0.0	0.0	0.0	6.0	4.0	5.0	10.0	9.0	9.5	17.5	16.0	17.0
10	0.0	0.0	0.0	6.5	5.5	6.0	12.0	10.0	11.0	18.5	15.5	17.0
11	0.0	0.0	0.0	7.5	6.0	7.0	14.0	12.0	13.0	20.0	16.5	18.0
12	0.0	0.0	0.0	9.0	7.5	8.5	15.5	13.5	14.5	20.5	17.5	19.0
13	0.0	0.0	0.0	8.5	8.0	8.5	17.0	15.0	0.0	21.5	19.0	20.0
14	0.0	0.0	0.0	9.0	8.0	8.5	17.0	15.5	16.0	23.5	20.0	21.5
15	0.0	0.0	0.0	10.0	9.0	9.5	17.0	15.5	16.5	23.5	21.5	22.0
16	0.0	0.0	0.0	9.5	8.5	9.0	18.0	16.0	17.0	23.5	22.0	22.5
17	0.0	0.0	0.0	8.5	7.0	8.0	19.0	17.0	18.0	---	---	---
18	0.0	0.0	0.0	7.0	6.0	6.5	20.0	18.0	19.0	---	---	---
19	0.0	0.0	0.0	6.5	5.5	6.0	---	---	---	---	---	---
20	0.0	0.0	0.0	6.5	5.5	6.0	---	---	---	---	---	---
21	0.0	0.0	0.0	6.5	5.0	6.0	---	---	---	---	---	---
22	0.0	0.0	0.0	5.5	4.0	5.0	---	---	---	---	---	---
23	0.0	0.0	0.0	7.0	5.0	6.0	---	---	---	---	---	---
24	0.0	0.0	0.0	7.5	6.0	6.5	---	---	---	---	---	---
25	0.0	0.0	0.0	8.0	6.0	7.0	---	---	---	---	---	---
26	0.0	0.0	0.0	9.5	7.0	8.5	16.5	16.5	16.0	---	---	---
27	0.0	0.0	0.0	10.0	9.0	9.5	16.0	16.0	15.0	---	---	---
28	0.5	0.0	0.0	10.0	9.5	10.0	16.0	16.0	15.0	---	---	---
29	---	---	---	11.5	10.0	11.0	17.0	17.0	16.0	---	---	---
30	---	---	---	12.5	11.5	11.5	16.0	16.0	15.5	---	---	---
31	---	---	---	11.0	9.5	10.5	---	---	---	---	---	---
MONTH	0.5	0.0	0.0	12.5	0.0	6.0	20.0	7.5	12.5	23.5	13.5	18.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.0	22.0	23.0	24.0	22.5	23.0	25.0	24.0	24.5			
2	22.5	21.0	22.0	25.0	22.0	23.0	24.5	23.5	24.0			
3	---	---	---	---	---	---	27.0	23.0	24.0			
4	---	---	---	---	---	---	24.0	23.0	23.5			
5	---	---	---	---	---	---	24.0	23.0	23.5			
6	---	---	---	---	---	---	23.0	22.5	22.5			
7	---	---	---	---	---	---	24.0	22.5	23.0			
8	21.5	20.5	21.0	---	---	---	24.0	23.5	23.5			
9	23.0	19.5	21.0	---	---	---	23.5	22.5	23.0			
10	20.0	19.0	20.0	---	---	---	23.5	22.5	23.0			
11	21.5	20.0	20.5	---	---	---	23.5	22.0	23.0			
12	20.5	20.0	20.5	---	---	---	22.5	21.5	22.0			
13	20.5	19.5	20.0	---	---	---	23.0	22.0	22.5			
14	22.0	19.0	20.5	---	---	---	23.5	22.0	22.5			
15	---	---	---	---	---	---	23.5	22.0	23.0			
16	---	---	---	---	---	---	23.5	22.5	23.0			
17	---	---	---	---	---	---	22.5	21.5	22.0			
18	---	---	---	---	---	---	21.0	20.0	20.5			
19	---	---	---	---	---	---	21.0	19.5	20.0			
20	---	---	---	---	---	---	---	---	---			
21	---	---	---	28.5	27.0	28.0	---	---	---			
22	---	---	---	26.5	25.5	26.0	---	---	---			
23	---	---	---	27.0	25.5	26.0	---	---	---			
24	---	---	---	26.0	25.0	25.5	---	---	---			
25	---	---	---	26.0	25.0	25.0	---	---	---			
26	---	---	---	25.0	24.0	24.5	---	---	---			
27	---	---	---	24.5	24.0	24.0	---	---	---			
28	28.0	26.0	27.0	25.0	23.5	24.0	---	---	---			
29	27.0	25.0	26.0	25.0	23.5	24.0	---	---	---			
30	25.5	22.5	24.0	26.5	24.0	25.5	---	---	---			
31	---	---	---	26.0	24.5	25.5	---	---	---			
MONTH	28.0	19.0	22.0	28.5	22.0	25.0	27.0	19.5	23.0			
YEAR	28.5	0.0	8.0									

05444000 ELKHORN CREEK NEAR PENROSE, IL

LOCATION.--Lat 41°54'10", long 89°41'40", in SW¼SE¼ sec.9, T.22 N., R.7 E., Whiteside County, Hydrologic Unit 07090005, on left bank 50 ft (15 m) upstream from highway bridge, 2 mi (3 km) northwest of Penrose, 2.2 mi (3.5 km) downstream from Buffalo Creek, and 5 mi (8 km) upstream from Sugar Creek.

DRAINAGE AREA.--146 mi² (378 km²).

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 925: 1940. WSP 955: 1941. WSP 1175: 1941(P), 1948(P). WSP 1308: 1950(M). WDR IL-72: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 657.85 ft (200.513 m) above mean sea level (levels by Corps of Engineers). Prior to Apr. 6, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods and those for period of no gage-height record, Nov. 5 to Dec. 16, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--38 years, 93.6 ft³/s (2.651 m³/s), 8.71 in/yr (221 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,770 ft³/s (192 m³/s) May 17, 1974, gage height, 16.53 ft (5.038 m); maximum gage height, 17.75 ft (5.410 m) Jan. 5, 1946; minimum discharge, 1.9 ft³/s (0.054 m³/s) Jan. 3, 1976, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1938 reached a stage of 19.6 ft (5.97 m), from high-water mark 909, Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,570 ft³/s (44.5 m³/s) June 30, gage height, 7.81 ft (2.380 m); minimum, 16 ft³/s (0.45 m³/s) Aug. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	33	24	23	25	43	62	33	25	153	17	49
2	25	30	23	24	26	40	57	33	24	60	52	49
3	24	29	23	25	26	42	52	32	24	47	92	46
4	24	27	23	25	26	182	53	34	23	43	29	41
5	39	28	23	25	27	86	62	166	29	39	26	38
6	47	27	23	24	27	47	55	90	34	36	98	36
7	36	25	23	24	25	43	49	65	28	36	42	33
8	30	26	23	24	24	45	46	56	35	163	40	30
9	30	28	24	23	23	49	43	51	30	63	45	29
10	30	30	25	23	25	47	41	47	26	33	36	27
11	30	31	26	23	27	46	38	45	42	28	38	25
12	32	26	27	24	43	80	37	43	42	26	41	28
13	32	24	27	24	60	69	36	41	30	24	33	33
14	32	22	28	24	47	51	36	40	27	22	28	29
15	31	23	27	23	42	45	35	39	26	22	25	28
16	30	33	27	23	38	40	34	38	25	58	39	31
17	32	35	28	23	30	37	32	36	37	42	41	34
18	33	34	28	23	34	39	31	34	94	118	30	118
19	37	32	29	24	33	38	31	33	42	82	27	119
20	37	30	29	24	33	37	44	33	30	44	106	77
21	36	27	27	24	32	40	46	33	24	33	91	64
22	33	22	27	24	35	41	50	32	23	28	56	56
23	33	25	28	24	100	42	46	31	22	27	45	53
24	33	30	29	23	400	39	41	30	23	26	44	99
25	33	38	30	23	140	38	38	29	23	25	40	83
26	32	41	31	23	77	36	37	27	20	23	35	66
27	30	37	31	23	60	40	35	27	19	22	33	58
28	31	33	30	23	44	54	38	27	19	22	43	53
29	30	29	29	23	---	123	37	27	18	23	112	50
30	34	27	27	23	---	98	34	30	480	20	75	49
31	34	---	25	24	---	80	---	28	---	19	54	---
TOTAL	995	882	824	732	1529	1737	1276	1310	1344	1407	1513	1531
MEAN	32.1	29.4	26.6	23.6	54.6	56.0	42.5	42.3	44.8	45.4	48.8	51.0
MAX	47	41	31	25	400	182	62	166	480	163	112	119
MIN	24	22	23	23	23	36	31	27	18	19	17	25
CFSM	.22	.20	.18	.16	.37	.38	.29	.29	.31	.31	.33	.35
IN.	.25	.22	.21	.19	.39	.44	.33	.33	.34	.36	.39	.39

CAL YR 1976 TOTAL 21588 MEAN 59.0 MAX 2340 MIN 22 CFSM .40 IN 5.50
WTR YR 1977 TOTAL 15080 MEAN 41.3 MAX 480 MIN 17 CFSM .28 IN 3.84

05446500 ROCK RIVER NEAR JOSLIN, IL
(National stream-quality accounting network station)

LOCATION.--Lat 41°33'35", long 90°10'55", in NE¼ sec.18, T.18 N., R.3 E., Rock Island County, Hydrologic Unit 07090005, on right bank at downstream side of bridge on State Highway 92, 1.8 mi (2.9 km) east of Joslin, 12 mi (19 km) downstream from Rock Creek, and 27 mi (43 km) upstream from mouth.

DRAINAGE AREA.--9,551 mi^2 (24,737 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WDR IL-74: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 564.06 ft (171.925 m) above mean sea level (levels by Corps of Engineers). Prior to Apr. 6, 1940, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good except those for winter periods, which are poor. Some diurnal fluctuation caused by power plants above station.

COOPERATION.--Seven discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--38 years, 5,761 ft^3/s (163.2 m^3/s), 8.19 in/yr (208 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,200 ft^3/s (1,310 m^3/s) Mar. 22, 1948, gage height, 14.46 ft (4.407 m); maximum gage height, 17.74 ft (5.407 m) Apr. 23, 1973; minimum daily discharge, 834 ft^3/s (23.6 m^3/s) Jan. 3, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,000 ft^3/s (283 m^3/s) Feb. 25, gage height, 8.84 ft (2.694 m), backwater from ice; minimum daily, 1,290 ft^3/s (36.5 m^3/s) May 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1710	1960	2400	1500	1500	7400	6280	3390	1970	3480	2900	4060
2	1740	1880	2300	1500	1500	7100	6030	3350	2020	3540	2910	3660
3	1700	1870	2200	1450	1500	6800	5830	3280	2170	2750	2760	3460
4	1690	2000	2100	1400	1500	6600	6090	3180	2000	2260	2720	3290
5	1740	2040	2050	1400	1550	6500	5900	2950	1880	2010	2680	2920
6	2010	1980	2100	1450	1550	5740	5710	3730	1880	2000	2680	2970
7	2240	1860	2050	1500	1600	6060	5820	3990	2600	1940	2750	3030
8	2210	1950	2000	1500	1600	5100	5700	3560	2310	1920	2880	2760
9	2160	2020	1950	1500	1600	3940	5510	3290	2330	1910	3230	2570
10	2160	1880	1900	1450	1300	4090	5430	2790	2260	2010	3720	2420
11	2080	2380	1900	1450	1500	4790	5370	2650	2030	1820	4520	2430
12	2030	2320	1850	1400	2300	4970	5130	2610	2440	1710	5020	2460
13	1950	1860	1800	1400	2000	4900	4700	2520	2350	1620	4510	2490
14	1890	1890	1800	1400	2100	4750	4510	2340	2160	1640	4470	2470
15	1890	2040	1800	1450	1800	4660	4530	2170	1960	1610	4060	2520
16	1760	2340	1800	1450	1800	4390	4450	2100	2060	1730	3500	2520
17	1820	1900	1800	1400	1800	4100	4280	2620	2040	2190	3430	2510
18	1850	1870	1850	1350	1750	4170	4060	2470	2020	2380	3360	3140
19	1820	2040	1950	1450	1750	4020	3740	2200	2450	3160	3120	3660
20	1840	2140	2150	1500	1750	4040	3810	2160	2910	6220	3230	3930
21	1860	2210	2150	1500	1800	4060	3870	2140	1920	3570	3650	4020
22	1840	2060	2000	1450	1800	4100	3840	2130	1850	4070	3590	3740
23	1870	2280	1900	1500	2900	3990	3850	1950	1830	3850	3320	3200
24	1870	2300	1800	1600	4200	3870	3790	1760	1740	3740	2940	3360
25	1870	2130	1900	1600	6000	3900	3850	1860	1730	4010	3300	3530
26	1850	2080	2000	1600	9000	3680	3920	2780	1590	4410	3020	3630
27	1870	2140	1900	1550	8400	3680	3930	2070	1580	4250	2870	3800
28	1810	2130	1850	1550	7900	3750	3780	1290	1690	4260	2780	3690
29	1740	2150	1750	1550	---	4120	3730	1640	1610	4180	2950	3530
30	1790	2300	1550	1500	---	4900	3550	1900	2190	3830	3400	3840
31	1890	---	1500	1500	---	5450	---	2010	---	3340	3920	---
TOTAL	58550	62000	60050	45800	75750	149620	140990	78880	61570	91410	104190	95610
MEAN	1889	2067	1937	1477	2705	4826	4700	2545	2052	2949	3361	3187
MAX	2240	2380	2400	1600	9000	7400	6280	3990	2910	6220	5020	4060
MIN	1690	1860	1500	1350	1300	3680	3550	1290	1580	1610	2680	2420
CFSM	.20	.22	.20	.16	.28	.51	.49	.27	.22	.31	.35	.33
IN.	.23	.24	.23	.18	.30	.58	.55	.31	.24	.36	.41	.37

CAL YR 1976 TOTAL 1812720 MEAN 4953 MAX 29100 MIN 1500 CFSM .52 IN 7.06
WTR YR 1977 TOTAL 1024420 MEAN 2807 MAX 9000 MIN 1290 CFSM .29 IN 3.99

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to current year.
WATER TEMPERATURES: October 1975 to current year.

REMARKS.--No record Nov. 13-17, July 2-9 due to missed sample. No specific conductance record Nov. 10 to Dec. 5, Dec. 7 to Jan. 2, Jan. 4 to Feb. 8 due to apparent alteration of sample because of freezing during storage. River frozen Dec. 28 to Feb. 8.

COOPERATION.--Pesticide samples were collected by the U.S. Geological Survey and analyzed by the U.S. Environmental Protection Agency.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum daily, 32.0°C July 15, 1977; minimum daily, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum daily, 32.0°C July 15; minimum daily, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV 02...	1315	1870	680	8.2	8.0	10	14.6	69	813	310	47
DEC 06...	1345	3030	645	8.4	.0	2	15.8	89	31	340	53
JAN 03...	1330	1450	815	7.8	.0	2	14.7	120	50	340	28
FEB 09...	1000	1610	775	7.8	.0	1	10.8	460	110	350	63
MAR 08...	1430	4870	470	7.7	3.0	15	12.3	--	--	200	36
APR 25...	1230	3840	570	9.1	16.4	20	15.4	B65	850	290	100
MAY 23...	1430	1580	600	8.3	26.0	2	11.0	850	B40	280	57
JUN 20...	1500	2910	590	8.9	26.5	1	13.2	140	170	290	66
JUL 26...	1415	4490	475	8.8	27.0	8	13.2	67	B280	230	15
AUG 31...	1330	3970	605	8.4	25.0	30	15.8	B300	150	290	69
SEP 30...	1045	3920	695	8.2	18.0	10	10.5	250	5400	340	81

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV 02...	65	37	21	13	.5	2.7	320	0	260	3.2	41
DEC 06...	69	41	22	12	.5	2.7	350	0	280	2.2	42
JAN 03...	65	44	26	14	.6	3.1	380	0	320	9.6	46
FEB 09...	73	41	26	14	.6	2.8	350	0	280	8.9	42
MAR 08...	43	22	13	12	.4	8.5	200	0	160	6.4	30
APR 25...	58	35	17	11	.4	3.5	230	0	190	.3	52
MAY 23...	54	35	18	12	.5	3.4	270	0	220	2.2	45
JUN 20...	59	34	20	13	.5	3.3	270	0	220	.5	38
JUL 26...	47	27	16	13	.5	3.6	230	15	210	.7	33
AUG 31...	57	36	20	13	.5	4.1	270	0	220	1.7	41
SEP 30...	75	38	18	10	.4	3.3	320	0	260	3.2	50

B Results based on colony count outside the acceptable range (non-ideal colony count).

05446500 ROCK RIVER NEAR JOSLIN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
NOV 02...	36	.2	2.1	358	363	.49	1810	1.5	1.9	3.4	15	.29
DEC 06...	35	.2	2.9	410	387	.56	3350	2.7	.75	3.5	15	.25
JAN 03...	43	.2	5.9	456	421	.62	1790	2.9	1.4	4.3	19	.31
FEB 09...	45	.2	12	449	414	.61	1950	3.2	2.6	5.8	26	.50
MAR 08...	29	.2	8.1	290	252	.39	3810	2.0	3.9	5.9	26	.66
APR 25...	32	.1	.1	361	311	.49	3740	1.0	1.8	2.8	12	.34
MAY 23...	31	.2	4.2	348	324	.47	1490	1.7	.84	2.5	11	.49
JUN 20...	33	.1	.1	372	321	.51	2920	1.1	1.6	2.7	12	.48
JUL 26...	26	.1	.1	305	281	.41	3700	.66	2.8	3.5	15	.46
AUG 31...	34	.2	1.3	344	327	.47	3690	.35	1.8	2.2	9.5	1.0
SEP 30...	31	.2	.7	390	374	.53	4130	2.9	1.0	3.9	17	.37

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
JAN 03...	1	0	1	2	0	2	<10	0	<10	0	0	0
APR 25...	3	1	2	3	--	--	10	3	7	0	--	--
JUL 26...	2	0	2	2	0	2	20	15	5	0	0	0

DATE	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
JAN 03...	10	0	10	130	40	11	6	5	60	10	50
APR 25...	25	--	--	1800	30	23	--	--	230	220	10
JUL 26...	13	0	13	2800	50	20	11	9	240	230	10

DATE	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN 03...	<.5	.0	<.5	0	0	0	330	300	30	6.7
APR 25...	.0	.0	.0	0	0	0	40	40	0	7.3
JUL 26...	.0	.0	.0	0	0	0	60	60	0	6.2

05446500 ROCK RIVER NEAR JOSLIN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ATRAZINE (UG/L)	ATRAZINE IN BOTTOM MATERIAL (UG/KG DRY SOLIDS)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MATERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)
NOV 02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 09...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAY 23...	ND	--	--	--	ND	--	ND	--	ND	--	ND	--
AUG 31...	ND	--	.42	--	ND	--	ND	--	ND	--	ND	--

DATE	TOTAL DIAZINON (UG/L)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	TOTAL DIELDRIN (UG/L)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)
NOV 02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 09...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAY 23...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
AUG 31...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALATHION (UG/L)	MALATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHOXYCHLOR (UG/L)	METHOXYCHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL TRITHION (UG/L)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL PARATHION (UG/L)	SIMAZINE TOTAL COULSON COND. (UG/L)
NOV 02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 09...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	ND
MAY 23...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
AUG 31...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	ND

DATE	SIMAZINE IN BOTTOM MATERIAL (UG/KG DRY SOLIDS)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	2,4-D IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4,5-T (UG/L)	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	TOTAL SILVEX (UG/L)	SILVEX IN BOTTOM MATERIAL (UG/KG)
NOV 02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 09...	--	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAY 23...	--	--	ND	--	ND	--	ND	--	ND	--	ND	--
AUG 31...	--	--	ND	--	ND	--	ND	--	ND	--	ND	--

ND Not detected.

05446500 ROCK RIVER NEAR JOSLIN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL PHYTO-PLANKTON (CELLS PER ML)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .062 MM
NOV				
02...	66000	140	707	97
DEC				
06...	4900	102	834	52
JAN				
03...	7400	59	231	71
FEB				
09...	--	53	230	98
MAR				
08...	--	126	1660	89
APR				
25...	--	137	1420	94
MAY				
23...	120000	88	375	74
JUN				
20...	100000	--	--	--
20...	--	203	1600	82
JUL				
26...	85000	168	2040	94
AUG				
31...	200000	123	1320	96
SEP				
30...	--	100	1060	97

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	570	610	---	---	---	570	615	555	610	500	440	590
2	545	680	---	---	---	580	600	560	620	---	440	570
3	555	650	---	815	---	540	610	575	495	---	440	580
4	580	640	---	---	---	500	600	560	615	---	470	565
5	575	635	---	---	---	515	610	545	625	---	485	570
6	480	640	645	---	---	500	605	560	610	---	515	600
7	600	600	---	---	---	465	600	560	605	---	530	590
8	625	630	---	---	---	470	600	540	600	---	500	560
9	635	630	---	---	775	500	595	555	580	---	545	560
10	640	---	---	---	765	530	590	565	580	515	560	560
11	630	---	---	---	760	540	570	525	590	530	590	565
12	610	---	---	---	720	560	570	535	540	550	570	575
13	590	---	---	---	730	565	565	555	600	550	535	555
14	580	---	---	---	655	575	575	570	455	505	560	565
15	570	---	---	---	670	580	575	550	540	510	550	570
16	575	---	---	---	---	575	585	560	545	515	520	580
17	580	---	---	---	---	575	585	565	530	550	565	580
18	620	---	---	---	680	630	580	580	535	520	560	565
19	640	---	---	---	---	600	600	590	530	555	570	560
20	600	---	---	---	730	620	610	595	590	550	570	600
21	660	---	---	---	---	620	610	605	600	530	585	610
22	635	---	---	---	700	630	610	610	540	435	600	630
23	650	---	---	---	630	620	640	600	575	410	600	620
24	650	---	---	---	630	630	645	515	580	410	615	580
25	640	---	---	---	565	585	570	560	565	510	605	605
26	635	---	---	---	570	600	580	570	570	475	605	615
27	620	---	---	---	580	560	560	590	565	470	580	630
28	650	---	---	---	560	565	565	590	555	445	535	630
29	640	---	---	---	---	580	550	600	595	430	560	630
30	645	---	---	---	---	585	550	600	400	440	550	695
31	645	---	---	---	---	610	---	605	---	435	605	---
MEAN	609	635	---	---	666	566	591	569	565	493	547	590

WTR YR 1977 MEAN 578 MAX 815 MIN 400

05446500 ROCK RIVER NEAR JOSLIN, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.5	6.5	0.0	0.0	0.0	1.0	9.0	16.5	23.0	23.0	25.5	25.5
2	19.5	7.0	0.0	0.0	0.0	0.5	12.0	18.0	22.0	---	25.0	25.0
3	19.5	6.0	0.0	0.0	0.0	1.0	10.5	17.0	21.0	---	24.0	24.0
4	18.0	5.0	0.0	0.0	0.0	0.5	10.0	17.0	22.0	---	25.5	26.0
5	16.5	5.0	0.0	0.0	0.0	1.0	8.5	20.0	24.5	---	25.0	24.5
6	15.5	4.5	0.0	0.0	0.0	1.0	8.0	19.0	23.5	---	24.0	24.0
7	13.0	4.0	0.0	0.0	0.0	1.0	9.5	18.0	22.5	---	25.0	25.0
8	13.0	1.5	0.0	0.0	0.0	3.0	9.5	19.0	22.0	---	24.5	24.0
9	14.0	3.0	0.0	0.0	0.0	5.5	10.5	18.0	21.0	---	24.5	24.5
10	14.0	3.0	0.0	0.0	0.0	5.5	12.0	17.5	20.0	28.0	26.0	22.0
11	15.0	1.5	0.0	0.0	0.5	6.0	15.0	20.0	21.5	27.5	25.5	22.0
12	14.5	2.0	0.0	0.0	0.5	8.0	16.0	19.0	21.0	28.5	24.0	21.0
13	15.0	---	0.0	0.0	0.5	9.0	17.0	21.5	20.0	30.5	24.0	20.5
14	14.5	---	0.0	0.0	0.0	8.0	16.5	21.0	21.5	31.5	25.0	19.0
15	13.0	---	0.0	0.0	0.0	10.5	16.0	23.0	23.5	32.0	24.5	19.0
16	11.5	---	0.0	0.0	0.0	9.0	17.0	23.0	24.5	30.0	24.5	20.0
17	11.0	---	0.0	0.0	0.0	8.5	21.0	23.5	26.0	27.0	23.0	20.0
18	8.0	2.5	0.0	0.0	2.0	7.0	21.0	23.5	25.0	26.0	22.0	20.0
19	8.5	4.5	0.5	0.0	0.0	6.0	19.5	26.0	25.0	26.5	23.0	20.0
20	8.0	4.0	0.0	0.0	0.5	7.0	20.0	25.0	25.5	29.0	21.0	19.0
21	6.0	2.5	0.0	0.0	0.0	5.5	19.0	24.0	24.5	30.0	23.0	18.5
22	5.5	1.0	0.0	0.0	2.5	6.0	18.0	25.0	24.0	29.5	22.0	18.5
23	6.5	0.0	0.0	0.0	2.0	6.5	16.0	23.0	23.5	25.0	23.0	18.0
24	7.0	0.0	0.0	0.0	1.5	6.0	18.0	24.0	24.5	27.0	21.0	20.0
25	6.5	2.0	0.0	0.0	1.0	8.0	16.0	27.0	24.5	28.0	22.0	19.0
26	7.0	4.0	0.0	0.0	1.0	7.5	16.0	25.0	28.0	26.5	23.0	18.0
27	6.0	0.0	0.0	0.0	1.0	11.0	17.0	25.0	27.5	25.0	24.0	19.0
28	5.0	0.0	0.0	0.0	1.0	10.5	16.0	28.0	27.0	25.5	25.5	18.0
29	7.0	0.0	0.0	0.0	---	12.0	15.5	27.0	25.5	26.0	23.0	18.0
30	7.0	0.0	0.0	0.0	---	12.0	14.0	26.5	22.5	27.0	23.0	15.5
31	8.0	---	0.0	0.0	---	10.0	---	26.0	---	28.0	25.0	---
MEAN	11.5	3.0	0.0	0.0	0.5	6.5	15.0	22.0	23.5	27.5	24.0	21.0

WTR YR 1977 MEAN 12.5 MAX 32.0 MIN 0.0

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05446500 ROCK RIVER NEAR JOSLIN, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	NOV 2,76	DEC 6,76	JAN 3,77	MAY 23,77
TIME	1315	1345	1330	1430
TOTAL CELLS/ML	66000	4900	7400	120000
DIVERSITY: DIVISION	1.3	0.6	0.8	1.3
.CLASS	1.3	0.6	0.8	1.4
..ORDER	1.5	1.2	1.5	1.5
...FAMILY	1.6	1.4	1.5	2.5
....GENUS	1.7	1.6	1.8	3.4

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	12000	10
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	9000	8
...MICRACTINIACEAE								
....GOLENKINIA	--	-	36	1	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-	*	0
...OOCYSTACEAE								
....ANKISTRODESMUS	1300	2	--	-	130	2	4700	4
....CHODATELLA	--	-	--	-	--	-	*	0
....DICTYOSPHAERIUM	7900	12	--	-	--	-	*	0
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	250	3	--	-
....SELENASTRUM	--	-	--	-	--	-	9700	8
....TETRAEDRON	--	-	--	-	--	-	1000	1
....TREUBARIA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	5400	5
....CRUCIGENIA	--	-	--	-	--	-	--	-
....SCENEDESMUS	1100	2	360	7	--	-	15000	13
....TETRASTRUM	--	-	--	-	--	-	4000	3
..ULOTRICHALES								
...ULOTRICHACEAE								
....ULOTHRIX	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	250	5	830	11	710	1
...PHACOTACEAE								
....COCCOMONAS	--	-	36	1	--	-	--	-
...VOLVOCACEAE								
....PANDORINA	--	-	--	-	--	-	1100	1
..ZYGNEMATALES								
...DESMIDIACEAE								
....CLOSTERIUM	--	-	--	-	--	-	*	0
....COSMARIUM	--	-	--	-	--	-	--	-
....STAURASTRUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	42000#	64	3700#	75	4700#	63	1900	2
....MELOSIRA	--	-	--	-	250	3	*	0
....STEPHANODISCUS	--	-	--	-	--	-	--	-
..PENNALES								
...DIATOMACEAE								
....DIATOMA	--	-	*	0	*	0	--	-
...FRAGILARIACEAE								
....SYNEDRA	--	-	72	1	64	1	--	-
...NAVICULACEAE								
....NAVICULA	--	-	--	-	*	0	--	-
...NITZSCHIACEAE								
....NITZSCHIA	2100	3	360	7	1100	15	710	1
...SURIRELLACEAE								
....SURIRELLA	--	-	72	1	*	0	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE								
....OCHROMONAS	--	-	--	-	--	-	3600	3

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	NOV 2,76		DEC 6,76		JAN 3,77		MAY 23,77	
TIME	1315		1345		1330		1430	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA(BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....ANACYSTIS								
.....A.INCERTA	--	-	--	-	--	-	28000#	24
....AGMENELLUM	--	-	--	-	--	-	13000	11
....ANACYSTIS	530	1	--	-	--	-	5700	5
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	11000#	16	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	64	1	--	-
...CRYPTOMONODACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	1400	1
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	*	0	36	1	64	1	--	-
....TRACHELOMONAS	*	0	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..GYMNODINIALES								
...GYMNODINIACEAE								
....GYMNODINIUM	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	JUN 20,77		JUL 26,77		AUG 31,77	
TIME	1300		1415		1330	
TOTAL CELLS/ML	100000		85000		200000	
DIVERSITY: DIVISION	1.5		1.4		1.2	
.CLASS	1.5		1.4		1.2	
..ORDER	1.8		1.8		1.8	
...FAMILY	2.5		2.3		2.4	
....GENUS	3.1		2.9		3.1	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...COELASTRACEAE						
....COELASTRUM	3700	4	5200	6	13000	6
...HYDRODICTYACEAE						
....PEDIASTRUM	9000	9	4700	6	15000	8
...MICRACTINIACEAE						
....GOLENKINIA	--	-	520	1	--	-
....MICRACTINIUM	560	1	--	-	2400	1
...OOCYSTACEAE						
....ANKISTRODESMUS	*	0	--	-	*	0
....CHODATELLA	--	-	--	-	--	-
....DICTYOSPHAERIUM	*	0	--	-	--	-
....KIRCHNERIELLA	1500	1	--	-	2100	1
....OOCYSTIS	750	1	780	1	*	0
....SELENASTRUM	--	-	--	-	--	-
....TETRAEDRON	*	0	--	-	--	-
....TREUBARIA	*	0	--	-	--	-
...SCENEDESMACEAE						
....ACTINASTRUM	6200	6	2100	2	5700	3
....CRUCIGENIA	--	-	--	-	1900	1
....SCENEDESMUS	19000#	19	13000#	15	11000	5
....TETRASTRUM	750	1	1000	1	*	0
..ULOTRICHALES						
...ULOTRICHACEAE						
....ULOTHRIX	--	-	--	-	7800	4
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	--	-	1200	1
...PHACOTACEAE						
....COCCOMONAS	--	-	--	-	--	-
...VOLVOCACEAE						
....PANDORINA	3000	3	--	-	--	-
..ZYGNEMATALES						
...DESMIDIACEAE						
....CLOSTERIUM	--	-	*	0	--	-
....COSMARIUM	--	-	2100	2	--	-
....STAURASTRUM	--	-	--	-	*	0
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	33000#	32	15000#	18	8500	4
....MELOSIRA	7100	7	27000#	32	*	0
....STEPHANODISCUS	--	-	--	-	*	0
..PENNALES						
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
...FRAGILARIACEAE						
....SYNEDRA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	*	0	520	1	*	0
...NITZSCHIACEAE						
....NITZSCHIA	1100	1	--	-	--	-
...SURIRELLACEAE						
....SURIRELLA	--	-	--	-	--	-
.CHRYSOPHYCEAE						
..CHRYSOMONADALES						
...OCHROMONADACEAE						
....OCHROMONAS	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

05446500 ROCK RIVER NEAR JOSLIN, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	JUN 20.77		JUL 26.77		AUG 31.77	
TIME	1300		1415		1330	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA(BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROCCOCCALES						
...CHROCCOCCAEAE						
....ANACYSTIS						
.....A.INCERTA	--	-	--	-	--	-
....AGMENELLUM	--	-	--	-	47000#	23
....ANACYSTIS	2600	3	8400	10	63000#	31
..HORMOGONALES						
...NOSTOCACEAE						
....ANABAENA	--	-	3900	5	7800	4
...OSCILLATORIACEAE						
....OSCILLATORIA	13000	12	--	-	11000	6
EUGLENOPHYTA (EUGLENOIDS)						
.CRYPTOPHYCEAE						
..CRYPTOMONIDALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	--	-	--	-
...CRYPTOMONODACEAE						
....CRYPTOMONAS	--	-	--	-	--	-
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	*	0
....TRACHELOMONAS	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..GYMNODINIALES						
...GYMNODINIACEAE						
....GYMNODINIUM	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON
(Sampling method - Polyethylene strip)

Date	Length of exposure (days)	Biomass (g/m²) Dry weight	Biomass (g/m²) Ash weight	Chlorophyll a (mg/m²)	Chlorophyll b (mg/m²)	Biomass pigment ratio
MAY 23	28			0.380	0.000	
SEP 30	31	31300	26400	5.54	2.00	884

05447500 GREEN RIVER NEAR GENESEO, IL

LOCATION.--Lat 41°29'20", long 90°09'30", in NE¼SW¼ sec.4, T.17 N., R.3 E., Henry County, Hydrologic Unit 07090007, on right bank at upstream side of bridge on State Highway 82, 1.4 mi (2.3 km) upstream from Genesec Creek and 2.4 mi (3.9 km) north of Geneseo.

DRAINAGE AREA.--1,003 mi² (2,598 km²).

PERIOD OF RECORD.--March 1936 to current year.

REVISED RECORDS.--WSP 875: 1938. WSP 1508: 1937, 1939-41(M), 1946(P), 1947-49. WDR IL-74: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 580.66 ft (176.985 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1939, nonrecording gage at same site at datum 30.00 ft (9.144 m) lower. Oct. 1, 1939, to Apr. 3, 1940, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

COOPERATION.--Seven discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--41 years, 578 ft³/s (16.37 m³/s), 7.83 in/yr (199 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,100 ft³/s (343 m³/s) June 22, 1974, gage height, 16.75 ft (5.105 m); maximum gage height, 18.59 ft (5.666 m) Jan. 23, 1969, backwater from ice; minimum daily discharge, 22 ft³/s (0.62 m³/s) Jan. 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,300 ft³/s (65.1 m³/s) Sept. 18, gage height, 7.04 ft (2.146 m), no peak above base of 3,200 ft³/s (91 m³/s); minimum daily, 22 ft³/s (0.62 m³/s) Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	89	82	27	33	180	402	131	152	655	106	390
2	64	79	84	27	33	165	351	129	138	423	93	455
3	62	76	86	26	35	175	322	125	131	260	325	428
4	62	74	88	25	33	150	294	142	127	195	138	380
5	98	73	88	26	32	120	308	452	125	163	217	336
6	164	74	90	26	30	129	292	760	129	142	152	297
7	125	76	85	27	29	144	262	481	133	129	174	265
8	97	63	82	27	28	161	239	374	140	119	357	240
9	93	69	81	27	26	179	217	316	154	129	468	224
10	86	77	84	27	25	170	204	281	140	125	55[illegible]	209
11	82	77	80	26	26	165	195	257	138	121	423	193
12	77	66	78	25	220	411	186	242	138	110	322	199
13	76	59	76	25	200	452	179	224	157	102	270	254
14	74	63	86	27	160	339	179	214	140	93	305	278
15	70	71	86	28	140	273	195	204	127	90	229	305
16	71	92	84	28	150	229	183	202	121	242	214	587
17	71	100	90	23	140	204	168	204	119	405	202	648
18	73	97	90	22	130	188	159	190	127	360	174	1470
19	79	91	92	23	120	179	154	188	125	474	157	1900
20	89	89	85	24	110	179	163	174	114	270	159	1370
21	86	84	82	25	104	183	172	168	104	212	157	1050
22	79	76	84	26	95	179	179	159	100	172	154	879
23	79	57	86	24	150	281	165	159	98	150	150	747
24	81	81	88	25	440	284	154	157	100	140	157	708
25	81	96	88	28	365	294	146	150	100	142	170	680
26	79	107	82	29	310	265	144	150	97	127	157	628
27	77	103	80	28	260	244	138	144	91	115	144	580
28	74	84	76	28	210	260	138	138	90	108	148	537
29	74	90	49	29	---	531	138	159	88	106	569	502
30	77	84	30	31	---	586	135	154	260	99	538	479
31	86	---	28	32	---	504	---	165	---	106	439	---
TOTAL	2553	2417	2470	821	3634	7803	6161	6993	3803	6084	7823	17218
MEAN	82.4	80.6	79.7	26.5	130	252	205	226	127	196	252	574
MAX	164	107	92	32	440	586	402	760	260	655	569	1900
MIN	62	57	28	22	25	120	135	125	88	90	93	193
CFSM	.08	.08	.08	.03	.13	.25	.20	.23	.13	.20	.25	.57
IN.	.09	.09	.09	.03	.13	.29	.23	.26	.14	.23	.29	.64

CAL YR 1976 TOTAL 161883 MEAN 442 MAX 5330 MIN 28 CFSM .44 IN 6.00
WTR YR 1977 TOTAL 67780 MEAN 186 MAX 1900 MIN 22 CFSM .19 IN 2.51

05448000 MILL CREEK AT MILAN, IL

LOCATION.--Lat 41°26'35", long 90°33'15", in SW¼SE¼ sec.24, T.17 N., R.2 W., Rock Island County, Hydrologic Unit 07090005, on left bank at upstream side of Knoxville Road Bridge, 1 mi (2 km) southeast of Milan.

DRAINAGE AREA.--62.4 mi^2 (161.6 km^2).

PERIOD OF RECORD.--October 1939 to September 1940 (fragmentary), July 1941 to current year.

REVISED RECORDS.--WSP 1308: 1940(M), 1943(M). WDR IL-72: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 566.23 ft (172.587 m) above mean sea level (levels by Corps of Engineers). Prior to Apr. 5, 1940, nonrecording gage at same site and datum.

REMARKS.--Records poor. Occasional pumpage of about 1 ft^3/s (0.03 m^3/s) from quarry into creek above gage. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--36 years, 41.5 ft^3/s (1.175 m^3/s), 9.03 in/yr (229 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,300 ft^3/s (263 m^3/s) Apr. 22, 1973, gage height, 11.65 ft (3.551 m); no flow at times in 1940-41, 1953-57, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft^3/s (40 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Aug. 7	Unknown	1420	40.2	5.12	1.561	Sept. 18	0915	*2300	65.1	*5.36	1.634

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	1.7	.58	.08	.00	14	26	5.3	1.6	35	2.8	31
2	.30	1.8	.50	.04	.00	12	24	5.3	1.4	5.0	2.5	23
3	.23	1.4	.42	.04	.00	16	17	5.0	1.7	3.0	20	22
4	.19	1.4	.47	.05	.00	20	22	5.9	1.6	2.1	7.0	19
5	4.3	1.4	.49	.06	.00	9.0	33	13	1.7	1.7	6.1	18
6	6.6	1.4	.50	.06	.00	7.2	19	10	2.1	1.5	6.5	16
7	1.6	1.4	.49	.06	.00	9.9	16	8.4	2.0	1.2	1420	15
8	1.0	1.4	.45	.04	.00	11	11	6.2	2.4	42	1020	14
9	.50	1.3	.46	.04	.00	9.2	12	4.8	2.8	24	136	12
10	.51	1.5	.52	.04	.00	4.4	11	4.4	53	5.6	78	10
11	.76	1.5	.56	.03	.10	7.1	9.7	4.4	11	4.1	54	9.7
12	.76	1.5	.51	.03	33	46	8.5	4.1	3.7	3.3	40	20
13	.82	.96	.43	.04	7.0	14	8.2	4.1	3.0	2.3	73	45
14	.75	.96	.45	.05	3.0	7.1	8.2	3.6	2.4	1.6	217	28
15	.69	1.3	.49	.06	4.5	2.0	11	3.5	1.6	1.0	66	26
16	.65	1.0	.52	.05	16	1.4	8.5	15	1.4	3.9	66	33
17	.82	1.3	.40	.03	5.2	1.2	7.1	33	4.6	6.6	56	41
18	1.1	1.8	.39	.01	4.1	1.2	6.6	6.3	7.9	338	43	850
19	1.0	1.8	.44	.00	2.3	1.3	6.1	4.3	1.8	82	38	192
20	1.4	1.3	.52	.00	8.5	1.6	7.6	3.5	1.0	25	35	118
21	1.7	1.2	.43	.00	10	2.3	15	3.9	.64	20	30	90
22	1.4	1.2	.39	.00	6.5	2.7	14	4.0	.58	15	24	76
23	1.1	.88	.41	.00	150	9.9	8.2	3.4	.76	7.5	20	66
24	1.3	.92	.39	.00	70	8.6	6.8	2.6	1.3	7.5	19	76
25	1.5	1.2	.41	.00	40	9.2	5.9	2.6	1.2	7.0	15	59
26	1.3	1.4	.47	.00	30	6.4	5.9	2.8	.90	4.8	20	51
27	1.3	1.5	.54	.00	20	5.0	4.5	2.7	.70	3.7	17	46
28	1.5	1.1	.36	.00	17	34	5.2	2.1	.48	3.4	18	42
29	1.2	.86	.27	.00	---	113	5.5	2.1	.36	3.1	36	40
30	1.4	.68	.21	.00	---	76	5.0	2.2	178	2.8	19	39
31	1.8	---	.14	.00	---	42	---	1.8	---	3.1	21	---
TOTAL	39.78	39.06	13.61	.81	427.20	504.7	348.5	180.3	293.62	666.8	3625.9	2127.7
MEAN	1.28	1.30	.44	.026	15.3	16.3	11.6	5.82	9.79	21.5	117	70.9
MAX	6.6	1.8	.58	.08	150	113	33	33	178	338	1420	850
MIN	.19	.68	.14	.00	.00	1.2	4.5	1.8	.36	1.0	2.5	9.7
CFSM	.02	.02	.007	.000	.25	.26	.19	.09	.16	.35	1.88	1.14
IN.	.02	.02	.01	.00	.25	.30	.21	.11	.18	.40	2.16	1.27

CAL YR 1976 TOTAL 8764.26 MEAN 23.9 MAX 472 MIN .14 CFSM .38 IN 5.22
WTR YR 1977 TOTAL 8267.98 MEAN 22.7 MAX 1420 MIN .00 CFSM .36 IN 4.93

05466000 EDWARDS RIVER NEAR ORION, IL

LOCATION.--Lat 41°16'20", long 90°22'40", in NE¼SE¼ sec.21, T.15 N., R.1 E., Henry County, Hydrologic Unit 07080104, on left bank at downstream side of bridge on U.S. Highway 150, 1.5 mi (2.4 km) north of Opheim and 5.5 mi (8.8 km) south of Orion.

DRAINAGE AREA.--155 mi² (401 km²).

PERIOD OF RECORD.--October 1940 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1175: 1947(P). WSP 1508: 1942. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 653.96 ft (199.327 m) above mean sea level (Corps of Engineers bench mark). Prior to Apr. 4, 1941, nonrecording gage at same site and datum.

REMARKS.--Records poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--37 years, 101 ft³/s (2.860 m³/s), 8.85 in/yr (225 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,910 ft³/s (252 m³/s) Feb. 19, 1951, gage height, 13.41 ft (4.087 m); maximum gage height, 15.52 ft (4.730 m) June 23, 1974; minimum discharge, 0.3 ft³/s (0.008 m³/s) Oct. 6, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1924 reached a stage of 20.2 ft (6.16 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 613 ft³/s (17.4 m³/s) Aug. 10, gage height, 4.61 ft (1.405 m), no peak above base of 1,800 ft³/s (51 m³/s); minimum daily , 0.40 ft³/s (0.011 m³/s) Jan. 20 to Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.3	1.4	.60	.40	25	80	14	9.5	43	6.2	32
2	2.1	2.2	1.2	.60	.41	23	70	14	9.1	17	5.0	30
3	1.9	1.8	1.1	.60	.42	21	64	13	8.7	9.9	20	29
4	2.2	1.6	1.1	.60	.42	20	60	13	8.3	7.9	18	26
5	5.0	1.6	1.0	.60	.42	19	54	22	7.9	6.5	9.5	23
6	18	1.6	.96	.60	.41	18	44	29	7.9	5.3	9.1	20
7	10	1.6	.94	.60	.41	32	35	25	7.6	4.1	37	17
8	5.0	1.8	.90	.60	.41	29	29	19	7.9	4.1	123	16
9	3.4	2.0	.88	.60	.41	24	25	16	14	14	180	15
10	2.5	2.2	.88	.60	1.0	22	22	15	16	9.5	378	13
11	2.2	2.0	.86	.60	25	20	20	15	18	8.3	210	12
12	1.8	1.9	.84	.60	23	50	19	14	15	8.3	106	11
13	1.8	1.9	.82	.60	17	56	18	13	12	4.8	63	19
14	2.0	1.8	.82	.58	13	45	17	13	10	3.9	49	31
15	1.6	1.7	.80	.54	11	32	16	12	9.5	3.4	40	29
16	1.3	1.7	.80	.50	9.8	28	20	11	9.1	3.6	55	114
17	1.2	2.0	.78	.47	9.0	26	19	11	9.9	6.2	88	140
18	1.2	2.3	.78	.45	8.4	27	16	11	15	7.9	37	268
19	1.6	1.9	.78	.42	8.0	30	16	11	11	6.5	31	394
20	2.0	1.7	.78	.40	7.6	25	16	11	9.2	4.7	27	258
21	2.2	1.7	.78	.40	7.2	30	20	13	8.2	3.6	24	206
22	2.0	1.7	.78	.40	7.0	32	26	13	7.6	3.2	20	173
23	1.8	1.7	.78	.40	12	45	21	11	7.2	3.0	18	150
24	1.8	1.8	.78	.40	60	48	18	9.9	7.2	3.2	13	130
25	2.3	2.1	.78	.40	54	42	17	9.5	6.9	3.6	9.5	110
26	2.3	1.7	.74	.40	40	39	16	9.5	6.9	3.4	8.7	95
27	1.8	1.9	.68	.40	33	33	16	9.9	6.2	2.7	8.3	86
28	1.5	2.3	.64	.40	28	38	15	9.9	5.6	2.5	11	70
29	1.5	1.9	.60	.40	---	124	14	9.9	7.0	2.5	127	64
30	1.5	1.6	.60	.40	---	110	14	9.9	20	2.5	83	60
31	2.2	---	.60	.40	---	94	---	9.9	---	5.0	47	---
TOTAL	90.0	56.0	26.18	15.56	377.71	1207	837	417.4	298.4	214.1	1861.3	2641
MEAN	2.90	1.87	.84	.50	13.5	38.9	27.9	13.5	9.95	6.91	60.0	88.0
MAX	18	2.3	1.4	.60	60	124	80	29	20	43	378	394
MIN	1.2	1.6	.60	.40	.40	18	14	9.5	5.6	2.5	5.0	11
CFSM	.02	.01	.005	.003	.09	.25	.18	.09	.06	.05	.39	.57
IN.	.02	.01	.01	.00	.09	.29	.20	.10	.07	.05	.45	.63

CAL YR 1976 TOTAL 32363.78 MEAN 88.4 MAX 2910 MIN .60 CFSM .57 IN 7.77
WTR YR 1977 TOTAL 8041.65 MEAN 22.0 MAX 394 MIN .40 CFSM .14 IN 1.93

05466500 EDWARDS RIVER NEAR NEW BOSTON, IL

LOCATION.--Lat 41°11'15", long 90°58'05", at quarter corner between secs.21 and 28, T.14 N., R.5 W., Mercer County, Hydrologic Unit 07080104, on left bank at downstream side of bridge on State Highway 17, 1.5 mi (2.4 km) northeast of New Boston and 5 mi (8 km) upstream from mouth.

DRAINAGE AREA.--445 mi² (1,153 km²).

PERIOD OF RECORD.--October 1934 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1508: 1935-36(M), 1938-40(M), 1941, 1943. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 529.92 ft (161.520 m) above mean sea level (levels by Corps of Engineers). Prior to Mar. 1, 1941, nonrecording gage at same site and datum.

REMARKS.--Records poor. Several observations of water temperature were made during the year.

COOPERATION.--Six discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--43 years, 268 ft³/s (7.590 m³/s), 8.18 in/yr (208 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,000 ft³/s (510 m³/s) Apr. 22, 1973, gage height, 23.33 ft (7.111 m); minimum, 5.2 ft³/s (0.15 m³/s) Sept. 30, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,370 ft³/s (38.8 m³/s) Aug. 11, gage height, 18.05 ft (5.502 m), no peak above base of 1,700 ft³/s (48 m³/s); minimum daily discharge, 6.0 ft³/s (0.17 m³/s) Jan. 11-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	20	14	7.6	6.2	62	175	44	30	307	21	170
2	26	20	13	7.2	6.2	58	145	42	28	180	20	160
3	26	19	13	7.0	6.2	56	129	42	28	101	49	140
4	24	19	13	6.8	6.2	54	117	41	27	70	77	130
5	25	19	12	6.6	6.2	54	113	55	27	55	49	130
6	23	19	12	6.5	6.2	54	111	64	26	37	49	120
7	32	18	12	6.4	6.2	90	106	81	26	29	405	120
8	36	18	12	6.3	6.2	78	98	75	25	117	700	110
9	35	18	12	6.2	6.8	68	88	68	25	112	900	110
10	33	18	12	6.1	10	74	86	61	26	62	800	110
11	30	18	12	6.0	20	73	80	55	29	45	1040	100
12	28	16	12	6.0	60	75	74	52	64	36	431	100
13	26	17	12	6.0	90	136	68	50	57	29	428	250
14	25	17	12	6.0	45	140	66	49	40	28	588	420
15	24	17	12	6.0	30	101	62	46	26	66	400	400
16	23	17	12	6.0	25	83	61	45	25	108	398	500
17	22	16	12	6.0	22	72	62	49	24	63	472	560
18	22	17	12	6.0	21	64	60	52	35	80	357	700
19	21	17	12	6.0	20	58	57	46	54	70	247	1000
20	21	17	12	6.0	19	55	55	42	40	63	205	616
21	20	17	12	6.0	18	52	55	43	30	49	170	454
22	20	17	11	6.0	17	51	59	43	25	41	150	411
23	20	17	11	6.0	35	51	61	42	23	34	140	370
24	20	18	11	6.0	140	52	59	40	22	28	130	340
25	20	18	11	6.0	130	57	57	37	21	28	120	320
26	20	17	10	6.4	90	65	53	35	20	27	110	290
27	20	18	10	8.0	74	66	48	34	20	26	100	270
28	20	20	9.4	7.6	68	76	47	33	20	24	160	252
29	20	17	8.8	6.6	---	140	46	32	30	22	350	238
30	20	15	8.4	6.4	---	239	45	31	200	21	250	226
31	20	---	8.0	6.3	---	228	---	30	---	20	200	---
TOTAL	749	531	355.6	198.0	990.4	2582	2343	1459	1073	1978	9516	9117
MEAN	24.2	17.7	11.5	6.39	35.4	83.3	78.1	47.1	35.8	63.8	307	304
MAX	36	20	14	8.0	140	239	175	81	200	307	1040	1000
MIN	20	15	8.0	6.0	6.2	51	45	30	20	20	20	100
CFSM	.05	.04	.03	.01	.08	.19	.18	.11	.08	.14	.69	.68
IN.	.06	.04	.03	.02	.08	.22	.20	.12	.09	.17	.80	.76

CAL YR 1976 TOTAL 97064.6 MEAN 265 MAX 6050 MIN 8.0 CFSM .60 IN 8.11
WTR YR 1977 TOTAL 30892.0 MEAN 84.6 MAX 1040 MIN 6.0 CFSM .19 IN 2.58

05467000 POPE CREEK NEAR KEITHSBURG, IL

LOCATION.--Lat 41°07'45", long 90°55'14", in SE¼ sec.11, T.13 N., R.5 W., Mercer County, Hydrologic Unit 07080104, 500 ft (152 m) downstream from highway bridge, 1.8 mi (2.9 km) northeast of Keithsburg, and 3.1 mi (5.0 km) upstream from mouth.

DRAINAGE AREA.--183 mi^2 (474 km^2).

PERIOD OF RECORD.--October 1934 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1508: 1935-37(M), 1938, 1939-43(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 524.07 ft (159.737 m) above mean sea level (levels by Corps of Engineers). Prior to Aug. 1, 1975, nonrecording gage and crest-stage gage at site 1,000 ft (305 m) upstream at same datum.

REMARKS.--Records poor. Several observations of water temperature were made during the year.

COOPERATION.--Six discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--43 years, 101 ft^3/s (2.860 m^3/s), 7.50 in/yr (190 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,900 ft^3/s (252 m^3/s) Apr. 22, 1973, gage height, 27.88 ft (8.498 m), from graph based on gage readings; maximum gage height, 28.0 ft (8.53 m) Feb. 21, 1937, backwater from ice, from graph based on gage readings; minimum discharge, 0.6 ft^3/s (0.017 m^3/s) Oct. 1, 2, 1949.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Aug. 8	1500	*1940	54.9	a*26.46	8.065	Aug. 10	1000	1510	42.8	24.22	7.382

a From graph based on gage readings.

Minimum daily discharge, 1.1 ft^3/s (0.031 m^3/s) July 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	7.5	5.2	2.4	3.3	18	74	11	9.7	49	40	46
2	6.2	6.9	4.8	3.0	3.1	18	53	11	6.0	14	195	60
3	6.2	6.4	4.5	2.7	2.9	27	44	11	5.0	9.4	54	66
4	6.0	7.7	4.0	2.5	2.8	25	45	15	4.8	6.6	35	47
5	12	7.0	3.5	2.4	2.8	20	50	33	4.6	3.5	112	41
6	17	6.4	3.2	2.4	2.8	18	43	32	4.2	3.2	219	36
7	11	5.6	2.9	2.4	2.8	18	39	37	3.6	1.1	1330	33
8	16	5.9	2.7	2.4	2.7	22	33	28	5.8	122	1570	76
9	14	6.0	2.6	2.4	2.7	23	29	23	9.3	62	678	33
10	9.8	6.4	2.5	2.5	3.5	27	26	19	15	16	1060	26
11	8.9	5.1	2.4	2.8	15	40	23	18	19	9.8	249	21
12	7.0	4.2	2.4	3.0	80	51	21	16	73	8.0	179	47
13	4.6	4.3	2.3	3.0	100	86	20	14	43	3.5	165	222
14	4.6	4.2	2.3	2.8	45	56	19	13	24	1.9	315	126
15	7.5	4.8	2.3	2.6	30	34	18	12	17	5.8	219	99
16	7.0	5.4	2.5	2.5	25	25	29	11	12	34	448	125
17	6.6	7.0	2.5	2.4	23	20	17	21	10	19	220	129
18	8.0	7.6	2.5	3.0	21	17	15	14	9.8	16	184	304
19	8.4	8.7	2.5	3.2	20	15	14	10	10	16	304	328
20	9.8	6.5	3.6	3.1	19	16	15	8.1	14	12	95	266
21	9.4	6.5	3.2	2.9	19	20	25	12	8.9	11	73	211
22	9.8	7.3	2.7	2.8	19	21	26	14	7.5	9.8	65	175
23	9.4	6.4	2.5	2.8	114	30	23	25	5.4	7.5	55	153
24	8.9	7.0	2.5	2.8	244	35	20	14	4.6	7.0	48	170
25	7.0	8.0	3.2	2.7	96	38	16	10	3.8	6.2	46	153
26	7.5	7.5	3.2	2.7	38	34	15	8.0	2.5	4.2	47	135
27	5.0	6.2	3.8	2.7	25	30	13	7.2	6.2	6.2	46	102
28	7.2	5.8	3.8	2.7	19	51	14	6.6	4.6	6.2	43	96
29	7.3	5.4	2.6	2.8	---	147	13	6.2	2.2	6.2	105	84
30	7.0	5.3	2.5	3.2	---	148	12	6.8	68	11	72	84
31	7.6	---	2.4	3.3	---	105	---	19	---	34	54	---
TOTAL	262.7	189.0	93.6	84.9	981.4	1235	804	485.9	413.5	522.1	8325	3494
MEAN	8.47	6.30	3.02	2.74	35.1	39.8	26.8	15.7	13.8	16.8	269	116
MAX	17	8.7	5.2	3.3	244	148	74	37	73	122	1570	328
MIN	4.6	4.2	2.3	2.4	2.7	15	12	6.2	2.2	1.1	35	21
CFSM	.05	.03	.02	.02	.19	.22	.15	.09	.08	.09	1.47	.63
IN.	.05	.04	.02	.02	.20	.25	.16	.10	.08	.11	1.69	.71

CAL YR 1976 TOTAL 34920.9 MEAN 95.4 MAX 2360 MIN 2.3 CFSM .52 IN 7.10
WTR YR 1977 TOTAL 16891.1 MEAN 46.3 MAX 1570 MIN 1.1 CFSM .25 IN 3.43

05469000 HENDERSON CREEK NEAR OQUAWKA, IL

LOCATION.--Lat 41°00'05", long 90°51'15", in NE¼SW¼ sec.28, T.12 N., R.4 W., Henderson County, Hydrologic Unit 07080104, on left bank at downstream side of bridge on State Highway 94, 1 mi (2 km) south of Bald Bluff, 6.5 mi (10.5 km) northeast of Oquawka, and 22 mi (35 km) upstream from mouth.

DRAINAGE AREA.--432 mi² (1,119 km²).

PERIOD OF RECORD.--October 1934 to current year. Prior to October 1938, published as Henderson River. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1208: 1939, 1942-43, 1948. WSP 1308: 1935-38(M), 1941(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 541.21 ft (164.961 m) above mean sea level (levels by Corps of Engineers). Prior to Mar. 4, 1941, nonrecording gage at same site and datum.

REMARKS.--Records poor. Several observations of water temperature were made during the year.

COOPERATION.--Six discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--43 years, 273 ft³/s (7.731 m³/s), 8.58 in/yr (218 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/s (467 m³/s) Apr. 25, 1950, gage height, 28.17 ft (8.586 m); minimum observed, 1.7 ft³/s (0.048 m³/s) Sept. 22, 23, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,170 ft³/s (89.8 m³/s) Aug. 9, gage height, 24.35 ft (7.422 m), from graph based on gage readings; minimum daily, 10 ft³/s (0.28 m³/s) Jan. 18-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	38	25	12	11	110	292	82	60	210	49	181
2	48	39	23	12	11	100	273	80	56	123	49	172
3	49	35	22	11	11	96	237	84	56	73	266	161
4	56	34	21	11	11	93	227	120	58	56	119	143
5	84	31	21	11	11	90	251	681	54	50	51	125
6	192	29	21	11	11	88	210	511	52	47	65	114
7	114	36	21	11	11	100	175	479	65	46	1160	90
8	70	44	21	11	11	120	164	379	63	56	2590	126
9	68	36	21	11	15	95	155	285	67	88	3090	114
10	48	34	21	11	25	90	144	248	103	61	2190	99
11	44	29	21	11	60	114	128	213	120	41	891	86
12	41	44	21	11	250	430	124	201	160	37	519	123
13	34	41	21	11	230	447	120	193	105	32	535	479
14	30	28	21	15	150	225	118	159	70	30	905	602
15	28	38	21	13	90	181	113	145	65	30	426	592
16	25	36	21	12	78	133	112	141	64	38	378	717
17	24	39	21	11	72	126	108	139	72	38	411	857
18	25	32	21	10	66	133	96	131	112	49	347	804
19	30	31	21	10	64	130	97	120	88	36	215	960
20	45	32	21	10	62	124	109	108	59	29	171	833
21	30	31	21	10	60	126	123	103	50	29	150	654
22	28	28	20	10	70	155	151	96	49	28	132	538
23	46	25	20	10	250	220	114	83	53	27	116	484
24	43	25	20	10	450	219	99	88	50	23	106	456
25	34	33	19	10	300	203	90	83	50	25	99	484
26	35	32	18	10	160	191	92	82	46	24	91	450
27	33	35	17	10	130	181	95	81	41	20	91	382
28	31	41	16	11	120	224	89	77	57	19	146	350
29	29	44	15	12	---	635	83	103	84	19	479	324
30	29	30	14	13	---	504	81	105	119	19	344	309
31	41	---	13	12	---	336	---	71	---	46	215	---
TOTAL	1480	1030	620	344	2790	6019	4270	5471	2148	1449	16396	11809
MEAN	47.7	34.3	20.0	11.1	99.6	194	142	176	71.6	46.7	529	394
MAX	192	44	25	15	450	635	292	681	160	210	3090	960
MIN	24	25	13	10	11	88	81	71	41	19	49	86
CFSM	.11	.08	.05	.03	.23	.45	.33	.41	.17	.11	1.23	.91
IN.	.13	.09	.05	.03	.24	.52	.37	.47	.18	.12	1.41	1.02

CAL YR 1976 TOTAL 104639 MEAN 286 MAX 4190 MIN 13 CFSM .66 IN 9.01
WTR YR 1977 TOTAL 53826 MEAN 147 MAX 3090 MIN 10 CFSM .34 IN 4.64

05474500 MISSISSIPPI RIVER AT KEOKUK, IA

LOCATION.--Lat 40°23'37", long 91°22'27", in SE¼SW¼ sec.30, T.65 N., R.4 W., Lee County, Hydrologic Unit 07080104, near right bank in tailwater of dam and powerplant of Union Electric Co. at Keokuk, 0.2 mi (0.3 km) upstream from bridge on U.S. Highway 136, 2.7 mi (4.3 km) upstream from Des Moines River, and at mile 364.2 (586.0 km) upstream from Ohio River.

DRAINAGE AREA.--119,000 mi^2 (308,000 km^2), approximately.

PERIOD OF RECORD.--January 1878 to current year.

GAGE.--Water-stage recorder. Datum of gage is 477.41 ft (145.515 m) above mean sea level (levels by Corps of Engineers); 477.83 ft (145.643 m) above mean sea level, adjustment of 1912; 477.34 ft (145.493 m) above mean gulf level; and 484.65 ft (147.721 m) above Memphis datum. Jan. 1, 1878, to May 1913, nonrecording gage at Galland (formerly Nashville), 8 mi (13 km) upstream; zero of gage was set to low-water mark of 1864, or 496.94 ft (151.467 m) above mean sea level, adjustment of 1912.

REMARKS.--Discharge computed from records of operation of turbines in powerplant and spillway gates in dam. Minor flow regulation casued by powerplant since 1913 and navigation dams. Records for May 1913 to September 1937 adjusted for change in contents in Keokuk Reservoir, those after September 1937 unadjusted.

COOPERATION.--Records furnished by Union Electric Co.

AVERAGE DISCHARGE.--99 years, 62,170 ft^3/s (1,761 m^3/s), 7.09 in/yr (180 mm/yr), 45,040,000 acre-ft/yr (55,500 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 344,000 ft^3/s (9,740 m^3/s) Apr. 24, 1973; maximum gage height, 23.35 ft (7.117 m) Apr. 24, 1973; minimum daily discharge, 5,000 ft^3/s (142 m^3/s) Dec. 27, 1933.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 6, 1851, reached a stage of 21.0 ft (6.40 m), present site and datum, estimated as 13.5 ft (4.11 m) at Galland, discharge, 360,000 ft^3/s (10,200 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 79,800 ft^3/s (2,260 m^3/s) Aug. 9; minimum daily, 10,700 ft^3/s (303 m^3/s) Nov. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12300	21000	14600	17900	16900	34700	61200	50900	18000	46100	16600	35600
2	12200	21400	14100	17600	16700	34400	56300	47100	23800	41400	16300	42700
3	14600	18500	15700	17900	16700	31800	48300	45600	28500	40700	20700	52500
4	13000	20100	15600	16200	14200	29800	54600	38400	26600	34800	23100	61900
5	15300	21400	11300	16900	14100	28800	55600	34100	25400	30000	23000	63700
6	18800	20500	12800	18600	15300	33000	59000	42900	27300	30400	26200	59900
7	20200	20200	13000	17300	15400	34300	61800	44400	26200	27600	30100	54200
8	22200	17200	14100	17700	16700	33400	63900	43600	28400	26700	46200	51700
9	19200	12000	14100	18400	17300	30500	59900	37500	41900	27500	79800	48800
10	18900	11100	15000	18800	16000	33900	56000	29800	41100	37300	65300	47200
11	12700	10700	17200	17400	15700	36400	47600	25900	36100	39100	53500	47300
12	12500	12500	16900	16800	20200	45400	44000	28100	36200	37600	40300	46800
13	16400	15100	14400	17100	22800	54300	41800	27300	31100	37000	37500	53000
14	17300	17800	14900	17600	25100	58100	41800	27100	24000	32800	33700	52400
15	16700	19500	17400	17200	22800	60600	36600	23900	17700	30400	32900	53300
16	16900	18800	15600	17700	19700	53000	31400	22600	17900	24400	18700	48300
17	16200	17600	16500	16700	19500	54700	32200	22800	19700	20600	34800	47800
18	15600	17400	17700	16200	20000	59000	30700	23300	20800	25000	36700	49900
19	16200	17900	21000	17200	19800	60100	34400	23100	27700	45700	38800	63900
20	19400	18500	21400	17700	19700	60100	41700	25400	33500	60600	31700	75100
21	18100	18700	17800	17400	20300	57500	44300	30800	32900	56200	29100	74200
22	16300	17600	17500	16000	20500	55200	54700	34900	34600	30300	29400	60000
23	16700	21400	20300	16200	21100	54800	54800	34400	30100	18700	31700	53300
24	17800	21300	17700	17000	28800	49000	52800	33400	26800	16800	31400	47500
25	19100	20400	16700	17400	40400	44400	55300	33100	24700	20200	31200	52400
26	17600	18700	15900	18100	53400	36400	55400	30400	25800	21800	30800	58200
27	17000	18800	16000	16400	52300	35000	50500	26700	25100	30900	28500	60100
28	15900	15400	16100	16800	42000	38600	51000	25200	23100	29500	28900	64000
29	14800	12400	16800	16400	---	46500	49800	20800	23400	28100	32500	64500
30	15800	13300	16600	17100	---	60100	51200	21000	26900	21200	31200	65200
31	17400	---	17600	18000	---	60400	---	19600	---	20000	32300	---
TOTAL	511100	527200	502300	535700	643400	1404200	1478600	974100	825300	989400	1042900	1655400
MEAN	16490	17570	16200	17280	22980	45300	49290	31420	27510	31920	33640	55180
MAX	22200	21400	21400	18800	53400	60600	63900	50900	41900	60600	79800	75100
MIN	12200	10700	11300	16000	14100	28800	30700	19600	17700	16800	16300	35600
CFSM	.14	.15	.14	.15	.19	.38	.41	.26	.23	.27	.28	.46
IN.	.16	.16	.16	.17	.20	.44	.46	.30	.26	.31	.33	.52
AC-FT	1014000	1046000	996300	1063000	1276000	2785000	2933000	1932000	1637000	1962000	2069000	3283000

CAL YR 1976 TOTAL 17922300 MEAN 48970 MAX 214000 MIN 10700 CFSM .41 IN 5.60 AC-FT 35550000
WTR YR 1977 TOTAL 11089600 MEAN 30380 MAX 79800 MIN 10700 CFSM .26 IN 3.47 AC-FT 22000000

05495500 BEAR CREEK NEAR MARCELLINE, IL

LOCATION.--Lat 40°08'34", long 91°20'14", between secs.20 and 21, T.2 N., R.8 W., Adams County, Hydrologic Unit 07110001, on right bank at downstream side of highway bridge, 0.9 mi (1.4 km) downstream from Grindstone Creek, 2.2 mi (3.5 km) northeast of Marcelline, and 12 mi (19 km) upstream from mouth.

DRAINAGE AREA.--349 mi² (904 km²).

PERIOD OF RECORD.--March 1944 to current year.

REVISED RECORDS.--WSP 1308: 1944-45(M), 1948(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 504.52 ft (153.778 m) above mean sea level. Prior to June 24, 1949 nonrecording gage at same site and datum.

REMARKS.--Records poor. Several observations of water temperature were made during the year.

COOPERATION.--Two discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--33 years, 194 ft³/s (5.494 m³/s), 7.55 in/yr (192 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,200 ft³/s (600 m³/s) July 22, 1951, gage height, 26.07 ft (7.946 m); no flow for many days in 1953-56, 1962-64, 1976-77.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft³/s (110 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 6	1900	4110	116	12.26	3.737	Sept. 13	1545	*6840	194	*15.02	4.578

No flow Aug. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.99	1.0	.56	.33	.21	12	32	3.0	2.1	.90	.00	183
2	.99	1.7	.54	.33	.20	10	25	3.3	1.7	.80	.04	263
3	.82	.99	.54	.33	.20	11	21	4.5	1.5	.70	.04	112
4	.82	.67	.54	.33	.20	10	17	6.0	1.3	.67	.03	238
5	4.9	.54	.54	.33	.20	8.7	15	242	1.2	.67	.10	98
6	7.9	.54	.80	.32	.20	7.4	14	2690	2.4	.67	11	52
7	4.9	.67	1.2	.32	.20	7.0	11	2040	1.6	.67	18	34
8	2.1	.82	.90	.32	.20	6.7	9.1	422	1.6	.99	564	27
9	.33	.67	.74	.32	.25	6.7	7.8	96	6.7	104	561	16
10	.10	.43	.64	.32	1.5	6.7	6.6	49	2.6	50	114	13
11	.25	.43	.59	.32	6.0	10	5.9	31	2.3	30	648	10
12	.99	.25	.54	.32	20	193	5.1	24	2.5	14	249	102
13	1.2	.25	.50	.32	100	112	5.0	18	2.6	9.0	61	5630
14	.82	.25	.47	.32	70	51	4.9	15	2.6	6.2	28	1210
15	.67	.33	.44	.32	35	28	3.9	12	1.6	4.2	664	439
16	.54	.43	.42	.32	20	18	5.1	10	.99	3.1	227	403
17	.33	.54	.40	.32	15	12	4.2	9.1	.99	2.2	67	225
18	.43	.82	.39	.32	13	12	4.7	7.8	.99	1.7	31	237
19	.99	.67	.38	.32	12	10	6.0	6.7	.99	1.5	20	189
20	.99	.67	.37	.32	11	10	7.4	6.3	.99	1.3	12	98
21	.82	.67	.36	.32	10	9.6	6.1	7.8	1.2	1.1	263	55
22	.67	.54	.36	.32	13	10	7.8	6.7	6.3	.95	350	36
23	1.6	.54	.35	.32	60	11	9.6	5.9	7.0	.82	83	28
24	1.4	.54	.35	.32	150	10	11	82	5.2	.72	36	73
25	1.2	.54	.35	.32	88	9.1	7.7	42	5.2	.62	21	64
26	.54	.82	.34	.31	36	8.3	4.9	14	4.2	.56	15	33
27	.54	1.2	.34	.29	22	8.3	4.1	6.7	2.9	.49	12	22
28	.82	.82	.34	.27	15	326	3.4	5.2	1.0	.48	517	16
29	1.2	.67	.34	.26	---	573	2.7	3.8	.90	.66	1160	13
30	1.9	.60	.33	.24	---	150	2.5	3.0	1.0	.28	270	87
31	2.4	---	.33	.23	---	60	---	2.4	---	.09	94	---
TOTAL	44.15	20.51	15.28	9.65	699.36	1717.5	270.5	5875.2	74.15	240.04	6096.21	10006
MEAN	1.42	.68	.49	.31	25.0	55.4	9.02	190	2.47	7.74	197	334
MAX	7.9	1.9	1.2	.33	150	573	32	2690	7.0	104	1160	5630
MIN	.10	.25	.33	.23	.20	6.7	2.5	2.4	.90	.09	.00	10
CFSM	.004	.002	.001	.001	.07	.16	.03	.54	.007	.02	.56	.96
IN.	.00	.00	.00	.00	.07	.18	.03	.63	.01	.03	.65	1.07

CAL YR 1976 TOTAL 32813.22 MEAN 89.7 MAX 4600 MIN .00 CFSM .26 IN 3.50
WTR YR 1977 TOTAL 25068.55 MEAN 68.7 MAX 5630 MIN .00 CFSM .20 IN 2.67

05502040 HADLEY CREEK AT KINDERHOOK, IL

LOCATION.--Lat 39°41'35", long 91°08'55", in SE¼NE¼ sec.25, T.4 S., R.7 W., Pike County, Hydrologic Unit 07110004, on right bank at upstream side of bridge on State Highway 96, 0.8 mi (1.3 km) southeast of Kinderhook, 2.0 mi (3.2 km) upstream from Burlington Northern Railroad bridge, and 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--72.7 mi^2 (188.3 km^2).

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1508: 1942, 1946, 1950.

GAGE.--Water-stage recorder. Datum of gage is 467.55 ft (142.509 m) above mean sea level (Corps of Engineers bench mark). Prior to Dec. 15, 1939, nonrecording gage, and Dec. 15, 1939, to Sept. 30, 1964, water-stage recorder at same site at datum 2.0 ft (0.61 m) higher.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--38 years, 53.1 ft^3/s (1.504 m^3/s), 9.92 in/yr (252 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft^3/s (425 m^3/s) Apr. 23, 1944, gage height, 13.91 ft (4.240 m); maximum gage height, 14.58 ft (4.444 m) Aug. 10, 1961; no flow for many days in many years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 17, 1939, reached a stage of 15.93 ft (4.856 m), from floodmarks, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (57 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 4	2130	2220	62.9	5.55	1.692	May 7	0230	2470	70.0	5.74	1.750
May 6	1100	*3640	103	*6.51	1.984	Sept. 13	0430	2500	70.8	5.76	1.756

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	3.5	1.8	1.5	1.2	5.0	18	23	2.0	.52	.00	2.9
2	.47	3.2	2.9	1.3	.90	6.0	16	140	2.0	.35	.00	2.4
3	.35	2.6	2.3	1.1	.90	8.0	14	76	1.9	.30	.00	1.4
4	.24	2.3	2.0	1.0	.90	9.0	14	345	1.7	.10	.00	1.4
5	3.8	2.0	2.9	.90	.80	7.0	11	459	1.7	.00	.00	1.4
6	18	2.0	3.2	.80	.80	5.0	10	934	1.3	.00	2.3	1.1
7	9.2	1.9	4.2	.70	1.0	3.0	8.6	687	1.1	.00	55	.80
8	5.8	1.6	2.9	.60	2.0	3.0	6.7	141	1.1	.00	6[illegible]	.58
9	5.0	1.6	2.6	.50	8.7	5.0	6.2	66	1.3	1.1	32	.08
10	4.2	2.0	2.5	.90	100	20	7.6	38	1.3	.39	7.5	.03
11	2.0	1.8	2.5	2.0	725	76	7.1	29	1.3	.08	4.0	.00
12	1.3	1.8	2.2	2.0	480	370	6.2	24	1.3	.06	2.9	2.0
13	1.1	1.7	2.2	1.5	246	49	6.2	20	1.3	.00	2.3	848
14	1.1	1.5	2.0	1.5	85	25	5.8	18	1.3	.00	1.6	86
15	2.0	1.5	2.0	1.0	30	21	5.8	15	1.3	.00	1.1	97
16	1.1	1.5	1.7	1.5	10	15	5.8	13	1.3	.00	1.1	46
17	1.3	1.5	1.6	3.0	5.0	13	5.4	12	1.3	.00	.80	24
18	.93	1.8	1.5	2.5	5.0	47	5.0	9.9	1.1	.00	.58	18
19	.76	2.0	1.5	2.0	10	22	4.2	8.5	1.3	.00	.35	14
20	1.3	1.8	1.3	1.5	7.0	16	5.2	7.0	1.1	.00	.08	11
21	1.5	1.8	1.3	1.3	5.0	12	7.6	7.0	.80	.00	.00	8.5
22	.93	1.8	1.1	1.2	20	12	53	6.5	.80	.00	.00	7.0
23	2.9	1.8	1.1	1.0	158	9.2	33	5.0	.70	.00	88	5.0
24	15	1.8	1.0	1.0	141	7.1	19	5.0	.80	4.0	38	5.6
25	6.9	1.8	.90	1.0	50	6.3	14	4.8	.80	2.6	5.6	5.6
26	4.3	2.3	.89	1.0	20	6.1	9.7	4.3	.80	.89	2.0	5.0
27	3.2	4.6	.90	1.0	7.0	5.8	6.7	3.8	.80	.04	1.1	3.9
28	2.3	7.6	.90	1.4	5.0	340	6.2	3.3	.68	.00	100	3.9
29	2.0	3.2	.90	2.0	---	149	5.8	3.3	.58	.00	75	.80
30	3.2	2.3	.90	1.7	---	44	5.0	2.9	.58	.00	12	.58
31	3.5	---	1.5	1.4	---	19	---	2.4	---	.00	5.0	---
TOTAL	106.28	68.6	57.19	41.80	2126.20	1335.5	328.8	3113.7	35.36	10.43	526.31	1203.97
MEAN	3.43	2.29	1.84	1.35	75.9	43.1	11.0	100	1.18	.36	17.0	40.1
MAX	18	7.6	4.2	3.0	725	370	53	934	2.0	4.0	100	848
MIN	.24	1.5	.89	.50	.80	3.0	4.2	2.4	.58	.00	.00	.00
CFSM	.05	.03	.03	.02	1.04	.59	.15	1.38	.02	.005	.23	.55
IN.	.05	.04	.03	.02	1.09	.68	.17	1.59	.02	.01	.27	.62

CAL YR 1976 TOTAL 13031.74 MEAN 35.6 MAX 2500 MIN .00 CFSM .49 IN 6.67
WTR YR 1977 TOTAL 8954.12 MEAN 24.5 MAX 934 MIN .00 CFSM .34 IN 4.58

05512500 BAY CREEK AT PITTSFIELD, IL

LOCATION.--Lat 39°37'30", long 90°47'40", in NE¼SW¼ sec.18, T.5 S., R.3 W., Pike County, Hydrologic Unit 07110004, on right bank at downstream side of bridge on abandoned highway, 50 ft (15 m) downstream from Panther Creek, 0.1 mi (0.2 km) downstream from bridge on State Highway 107, 0.4 mi (0.6 km) downstream from Norfolk & Western Railway bridge, and 1.4 mi (2.3 km) northeast of Pittsfield.

DRAINAGE AREA.--39.4 mi² (102.0 km²).

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1175: 1940(P), 1941, 1949. WSP 1508: 1942. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 638.48 ft (194.609 m) above mean sea level (levels by Corps of Engineers). Prior to Dec. 7, 1939, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--38 years, 26.5 ft³/s (0.750 m³/s), 9.13 in/yr (232 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s (357 m³/s) Sept. 16, 1965, gage height, 14.77 ft (4.502 m), from rating curve extended above 4,400 ft³/s (125 m³/s); no flow during many periods.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 8, 1926, reached a stage of 18.4 ft (5.61 m), from floodmark, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,260 ft³/s (262 m³/s) May 6, gage height, 13.69 ft (4.173 m); minimum daily, 0.12 ft³/s (0.003 m³/s) Oct. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.41	.37	.38	.38	1.0	7.3	13	.50	.50	.50	.22
2	.27	.28	.34	.24	.35	.80	14	31	.50	.50	.50	.51
3	.23	.19	.35	.20	.35	3.7	6.5	9.2	.50	.50	.50	.92
4	.30	.43	.36	.18	.37	3.7	7.1	206	.50	.50	.50	.75
5	2.5	.59	.31	.17	.38	1.8	6.2	428	.50	.50	4.2	.57
6	1.3	.60	.50	.16	.34	1.3	5.1	2120	.50	.50	63	.62
7	.65	.57	.39	.15	.48	1.2	4.3	221	.50	.50	53	.65
8	.33	.48	.35	.15	.37	1.2	2.9	37	.50	.50	22	.69
9	.25	.46	.38	.15	.64	1.3	2.7	22	.50	1.6	3.2	.69
10	.21	.44	.39	.53	144	1.3	2.5	12	1.0	9.3	.79	.67
11	.25	.38	.32	.88	323	35	2.3	6.6	2.0	.40	.70	.60
12	.30	.34	.32	1.0	134	154	2.1	5.3	2.8	.40	.70	2.1
13	.38	.36	.40	.89	29	25	2.1	4.2	4.2	.40	.60	33
14	.42	.34	.36	.49	9.8	10	2.2	3.9	1.5	.40	.60	2.3
15	.37	.31	.53	.45	3.1	3.5	2.2	3.5	.77	.40	.60	44
16	.32	.34	.48	.69	1.7	2.3	2.2	3.0	.63	.40	.59	16
17	.31	.35	.40	1.1	1.3	4.3	2.0	2.9	.54	.40	.61	.73
18	.33	.37	.40	.62	1.8	36	1.9	3.0	.45	.40	.71	134
19	.32	.37	.35	.44	4.2	5.3	1.8	2.9	.27	.40	.80	3.8
20	2.0	.37	.35	.40	2.0	4.6	1.9	2.6	.28	.40	.91	1.3
21	4.1	.33	.30	.60	1.8	3.7	2.8	3.2	.48	.40	.89	.86
22	.41	.35	.30	.46	6.3	4.6	26	2.5	.90	.40	.97	.77
23	2.6	.32	.35	.34	78	2.9	8.0	3.6	.71	4.1	67	.73
24	9.7	.33	.40	.38	10	2.4	5.1	4.0	1.1	20	3.0	2.0
25	.94	.31	.38	.38	3.0	2.1	2.8	2.0	1.3	7.5	.53	1.2
26	.39	1.0	.42	.40	2.0	2.0	2.2	1.0	1.4	.80	.33	.70
27	.23	.79	.48	.35	1.5	2.2	1.9	.51	1.0	.60	.30	.56
28	.22	.67	.45	.50	1.2	315	1.8	.50	1.1	.50	3.4	.50
29	.12	.69	.43	.98	---	45	1.6	.50	.78	.50	2.3	.51
30	.80	.37	.42	.79	---	12	1.6	.50	.60	.50	.50	.62
31	.48	---	.59	.78	---	6.8	---	.50	---	.50	.24	---
TOTAL	31.32	12.94	12.17	15.23	761.36	696.00	133.1	3155.91	28.31	54.70	234.47	252.57
MEAN	1.01	.43	.39	.49	27.2	22.5	4.44	102	.94	1.76	7.56	8.42
MAX	9.7	1.0	.59	1.1	323	315	26	2120	4.2	20	67	134
MIN	.12	.19	.30	.15	.34	.80	1.6	.50	.27	.40	.24	.22
CFSM	.03	.01	.01	.01	.69	.57	.11	2.59	.02	.05	.19	.21
IN.	.03	.01	.01	.01	.72	.66	.13	2.98	.03	.05	.22	.24

CAL YR 1976 TOTAL 4441.25 MEAN 12.1 MAX 919 MIN .12 CFSM .31 IN 4.19
WTR YR 1977 TOTAL 5388.08 MEAN 14.8 MAX 2120 MIN .12 CFSM .38 IN 5.09

05513000 BAY CREEK AT NEBO, IL

LOCATION.--Lat 39°26'35", long 90°47'45", in NW¼ sec.19, T.7 S., R.3 W., Pike County, Hydrologic Unit 07110004, on left bank 140 ft (43 m) downstream from highway bridge, 500 ft (152 m) upstream from Spring Creek, 0.2 mi (0.3 km) west of Nebo, and 1.6 mi (2.6 km) upstream from Illinois Central Gulf Railroad bridge. Records include flow of Spring Creek.

DRAINAGE AREA.--161 mi^2 (417 km^2), including that of Spring Creek.

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 975: 1940, 1941(M), 1942. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 462.56 ft (140.988 m) above mean sea level (levels by Corps of Engineers). Prior to Dec. 9, 1939, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--38 years, 94.3 ft^3/s (2.671 m^3/s), 7.95 in/yr (202 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,500 ft^3/s (666 m^3/s) Aug. 16, 1946, gage height, 19.31 ft (5.886 m), from rating curve extended above 9,000 ft^3/s (255 m^3/s); no flow for several days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft^3/s (85 m^3/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft^3/s)	(m^3/s)	(ft)	(m)			(ft^3/s)	(m^3/s)	(ft)	(m)
May 5	2330	*8250	234	*13.32	4.060	Aug. 9	0145	3760	106	10.15	3.094

Minimum daily discharge, 1.0 ft^3/s (0.028 m^3/s) Jan. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	6.2	2.5	3.0	2.5	10	78	23	9.0	5.5	2.2	3.8
2	1.6	6.4	2.3	2.5	1.6	13	252	89	8.6	5.8	2.1	3.2
3	1.5	3.8	2.2	2.2	1.9	25	104	64	7.5	4.9	2.1	18
4	3.0	8.2	2.3	1.8	2.1	30	77	360	7.5	4.1	1.9	34
5	8.0	9.7	2.3	1.5	1.7	23	68	2830	7.1	3.6	1.9	5.8
6	36	5.2	2.7	1.3	1.7	17	52	4560	7.1	3.4	58	3.8
7	14	3.1	3.1	1.2	1.6	13	43	1610	6.1	3.4	310	3.4
8	5.2	1.5	2.6	1.2	1.6	12	37	335	6.4	3.2	89	3.0
9	3.0	1.7	2.5	1.0	12	10	32	192	7.5	3.4	738	2.8
10	2.0	1.8	2.7	1.0	198	9.3	29	141	9.0	10	20	2.8
11	1.5	1.7	2.6	2.0	778	125	26	106	8.6	63	9.8	2.8
12	5.1	1.8	2.7	4.0	657	894	23	82	7.5	18	7.1	3.2
13	4.0	1.9	2.8	5.0	262	138	22	68	18	7.8	5.8	270
14	2.6	2.0	2.7	4.0	87	58	20	57	20	4.9	5.2	101
15	3.0	2.1	2.8	3.0	43	29	20	49	14	3.4	4.6	310
16	3.2	2.2	2.3	4.0	20	13	19	41	8.6	3.0	4.6	131
17	2.5	2.2	2.0	5.0	12	22	17	36	6.8	2.6	4.1	38
18	2.0	2.4	1.8	6.0	10	181	16	31	5.8	2.1	3.8	23
19	2.0	2.6	1.6	4.5	15	53	15	28	5.2	1.8	3.6	148
20	5.1	2.6	1.5	2.0	13	39	15	25	5.1	1.6	3.6	24
21	5.9	2.7	1.5	2.5	10	21	18	23	4.6	1.5	3.4	18
22	4.0	2.5	1.5	2.5	20	20	49	22	5.2	2.1	3.2	15
23	34	2.4	1.5	2.0	177	15	80	21	5.8	1.8	5.2	12
24	148	2.4	1.8	1.5	168	10	61	84	10	1.6	37	14
25	41	2.4	2.0	1.5	45	7.9	32	20	8.6	238	9.4	14
26	14	2.6	1.8	1.5	20	6.1	23	17	6.8	19	5.2	14
27	6.4	4.2	1.7	1.5	14	6.4	19	15	6.1	7.1	3.8	20
28	4.9	4.2	1.6	2.0	10	1180	16	15	6.1	4.3	3.6	23
29	3.0	3.8	1.5	4.0	---	412	13	13	5.2	3.4	9.8	25
30	7.4	3.0	1.5	5.0	---	175	12	11	5.2	3.0	9.0	26
31	10	---	1.5	4.0	---	104	---	10	---	2.6	5.2	---
TOTAL	385.7	99.3	65.9	84.2	2585.7	3671.7	1288	10978	239.0	439.9	1372.2	1312.6
MEAN	12.4	3.31	2.13	2.72	92.3	118	42.9	354	7.97	14.2	44.3	43.8
MAX	148	9.7	3.1	6.0	778	1180	252	4560	20	238	738	310
MIN	1.5	1.5	1.5	1.0	1.6	6.1	12	10	4.6	1.5	1.9	2.8
CFSM	.08	.02	.01	.02	.57	.73	.27	2.20	.05	.09	.28	.27
IN.	.09	.02	.02	.02	.60	.85	.30	2.54	.06	.10	.32	.30

CAL YR 1976 TOTAL 17413.94 MEAN 47.6 MAX 1670 MIN .42 CFSM .30 IN 4.02
WTR YR 1977 TOTAL 22522.20 MEAN 61.7 MAX 4560 MIN 1.0 CFSM .38 IN 5.20

05520500 KANKAKEE RIVER AT MOMENCE, IL

LOCATION.--Lat 41°09'36", long 87°40'07", in NE¼ sec.24, T.31 N., R.13 E., Kankakee County, Hydrologic Unit 07120001, on right bank at Hill Street in Momence, 0.2 mi (0.3 km) downstream from bridge on State Highways 1 and 17, and 1.2 mi (1.9 km) upstream from Tower Creek.

DRAINAGE AREA.--2,294 mi^2 (5,941 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February to December 1905, February to July 1906, December 1914 to current year.

REVISED RECORDS.--WSP 1238: 1916, 1930. WSP 1308: 1915(M), 1917(M), 1919(M), 1922(M), 1926(M), 1934-35(M), 1938(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 609.18 ft (185.678 m) above mean sea level. Prior to Aug. 1, 1938, nonrecording gage at site 0.2 mi (0.3 km) upstream at datum 1.00 ft (0.305 m) higher. Aug. 1, 1938, to Aug. 8, 1969, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

REMARKS.--Water-discharge records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--62 years (water years 1916-77), 1,919 ft^3/s (54.35 m^3/s), 11.36 in/yr (289 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,900 ft^3/s (337 m^3/s) Mar. 5, 1976, gage height, 6.44 ft (1.963 m); maximum gage height observed, 8.09 ft (2.466 m) Jan. 25, 1930, site and datum then in use, ice jam; minimum discharge observed, 306 ft^3/s (8.67 m^3/s) Sept. 1, 16, 17, 1919.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,780 ft^3/s (135 m^3/s) Apr. 5, 1977, gage height, 3.78 ft (1.152 m); maximum gage height, 7.12 ft (2.170 m) Feb. 12, ice jam; minimum discharge, 601 ft^3/s (17.0 m^3/s) Aug. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	816	810	900	800	680	4000	4600	1960	1050	1250	645	1270
2	798	805	900	800	680	3420	4580	1920	1040	1390	617	2130
3	784	803	900	820	680	3170	4620	1890	1010	1540	612	2040
4	763	792	900	850	680	3180	4620	1890	985	1660	623	1950
5	762	790	900	880	700	3420	4700	2120	996	1710	629	1850
6	831	811	870	880	700	3280	4680	2500	1050	1720	620	1710
7	922	840	840	850	700	3270	4620	2600	1070	1670	659	1580
8	1000	850	840	800	700	3310	4540	2720	1090	1480	687	1440
9	1020	870	840	800	700	3410	4360	2760	1050	1300	690	1320
10	1020	901	840	770	730	3470	4210	2710	1030	1180	1030	1220
11	998	914	840	720	760	3510	4070	2600	1050	1100	945	1140
12	963	900	840	700	800	3540	3940	2380	1100	1090	956	1060
13	929	907	840	700	900	3580	3790	2250	1140	1030	926	1090
14	893	934	840	700	950	3520	3640	1990	1150	1000	841	1220
15	868	942	840	700	1000	3480	3520	1840	1140	1080	800	1440
16	852	925	860	680	1000	3430	3390	1720	1080	1210	744	1770
17	826	923	860	680	1050	3380	3230	1690	996	1040	709	1800
18	822	916	860	680	1050	3410	3080	1640	1160	978	717	1970
19	816	906	860	680	1050	3370	2930	1590	1070	936	708	2070
20	795	917	860	680	1000	3370	2860	1540	1040	895	687	2080
21	803	900	840	700	1050	3410	2800	1490	1050	885	673	2170
22	804	894	840	700	1050	3480	2660	1450	1020	878	668	2200
23	798	882	840	700	1200	3620	2540	1430	962	860	661	2200
24	820	880	840	700	1500	3700	2450	1380	928	835	655	2350
25	830	890	840	720	2000	3710	2380	1350	895	883	646	2370
26	820	944	860	720	3000	3730	2320	1290	862	752	656	2760
27	809	1010	860	700	4000	3710	2240	1240	830	719	640	2990
28	775	1090	860	680	4500	3920	2190	1200	841	692	618	2960
29	787	1000	860	680	---	4500	2130	1160	852	680	648	2910
30	797	950	860	680	---	4580	2030	1130	928	659	669	2840
31	814	---	820	680	---	4640	---	1090	---	653	714	---
TOTAL	26335	26896	26550	22830	34810	111520	103720	56520	30465	33755	22093	57900
MEAN	850	897	856	736	1243	3597	3457	1823	1016	1089	713	1930
MAX	1020	1090	900	880	4500	4640	4700	2760	1160	1720	1030	2990
MIN	762	790	820	680	680	3170	2030	1090	830	653	612	1060
CFSM	.37	.39	.37	.32	.54	1.57	1.51	.80	.44	.48	.31	.84
IN.	.43	.44	.43	.37	.56	1.81	1.68	.92	.49	.55	.36	.94

CAL YR 1976 TOTAL 858476 MEAN 2346 MAX 11300 MIN 687 CFSM 1.02 IN 13.92
WTR YR 1977 TOTAL 553394 MEAN 1516 MAX 4700 MIN 612 CFSM .66 IN 8.97

05520500 KANKAKEE RIVER AT MOMENCE, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: April 1975 to September 1977 (discontinued).

INSTRUMENTATION.--Temperature recorder since Apr. 3, 1975.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 30.0°C July 15, 20, 21, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 30.0°C July 15, 20, 21; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.0	14.0	15.5	8.0	5.5	6.5	1.0	0.0	0.5	0.0	0.0	0.0
2	18.0	15.0	16.5	8.5	6.5	7.5	1.0	0.0	0.5	0.0	0.0	0.0
3	19.0	16.0	17.5	8.0	6.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
4	19.5	16.0	18.0	6.0	5.0	5.5	0.5	0.0	0.0	0.0	0.0	0.0
5	18.0	15.5	17.0	6.0	4.0	5.0	0.0	0.0	0.0	0.5	0.0	0.0
6	16.0	13.5	14.5	5.5	4.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
7	13.5	12.5	13.0	5.0	3.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
8	13.5	12.0	12.5	4.0	1.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
9	12.0	11.0	11.5	4.5	2.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
10	12.0	10.5	11.5	4.5	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
11	12.5	10.5	11.5	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
12	14.0	11.0	12.5	4.0	1.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
13	15.0	12.5	13.5	3.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
14	14.0	11.5	12.5	3.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
15	13.5	11.5	12.0	3.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
16	12.0	10.0	11.0	3.5	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
17	10.0	9.0	9.5	3.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
18	10.0	8.0	9.0	4.0	1.5	3.0	0.0	0.0	0.0	0.5	0.0	0.0
19	8.5	8.0	8.5	5.0	3.0	4.0	0.0	0.0	0.0	0.5	0.0	0.0
20	9.5	7.5	8.5	4.5	3.0	3.5	0.0	0.0	0.0	0.5	0.0	0.0
21	8.0	6.5	7.5	4.0	3.0	3.5	0.0	0.0	0.0	0.5	0.0	0.0
22	7.5	5.0	6.5	3.5	2.0	2.5	0.0	0.0	0.0	0.5	0.0	0.0
23	6.0	5.0	5.5	3.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
24	7.0	6.0	6.5	2.5	1.0	1.5	0.0	0.0	0.0	0.5	0.0	0.5
25	8.5	7.0	7.5	4.0	1.5	2.5	0.0	0.0	0.0	0.5	0.0	0.5
26	8.5	7.0	7.5	5.5	4.5	5.5	0.0	0.0	0.0	0.5	0.0	0.0
27	8.5	6.5	7.5	5.5	3.5	5.0	0.0	0.0	0.0	0.5	0.0	0.0
28	8.0	5.5	6.5	4.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
29	7.5	5.0	6.5	2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
30	6.5	6.0	6.0	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
31	7.5	6.0	7.0	---	---	---	0.0	0.0	0.0	0.5	0.0	0.5
MONTH	19.5	5.0	10.5	8.5	0.0	3.5	1.0	0.0	0.0	0.5	0.0	0.0

05520500 KANKAKEE RIVER AT MOMENCE, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	0.5	0.5	1.5	0.0	0.5	10.5	9.0	10.0	15.0	13.5	14.5
2	0.5	0.0	0.5	1.5	0.0	1.0	12.5	10.5	11.5	15.5	15.0	15.5
3	1.0	0.5	0.5	2.0	1.0	1.5	12.5	11.0	12.0	16.0	14.0	15.0
4	1.0	0.5	0.5	2.0	1.0	2.0	12.0	10.5	11.5	17.5	15.5	16.5
5	0.5	0.0	0.5	1.5	1.0	1.0	10.0	7.5	9.0	20.5	16.5	18.5
6	0.5	0.0	0.0	2.5	1.0	2.0	8.0	6.5	7.5	19.5	18.0	18.5
7	0.5	0.0	0.5	4.0	1.5	3.0	9.5	7.0	8.0	18.5	17.0	18.0
8	0.5	0.5	0.5	5.5	3.0	4.5	9.0	7.5	8.5	17.5	15.5	16.5
9	1.0	0.5	0.5	7.0	5.0	6.0	9.5	7.5	8.5	15.5	14.0	15.0
10	1.0	0.5	0.5	8.5	6.5	7.5	12.5	9.0	10.5	15.5	13.0	14.5
11	0.5	0.5	0.5	9.5	8.0	9.0	14.5	12.0	13.0	16.5	14.0	15.5
12	0.5	0.5	0.5	12.0	10.0	11.0	16.5	14.0	15.5	18.0	15.5	16.5
13	0.5	0.5	0.5	11.0	9.5	10.5	17.5	15.5	17.0	19.5	17.0	18.0
14	0.5	0.5	0.5	11.0	9.0	10.0	17.5	16.5	17.0	20.0	18.5	19.5
15	0.5	0.0	0.5	11.5	10.0	11.0	17.5	16.5	17.0	21.0	19.0	20.0
16	0.5	0.0	0.5	11.0	9.5	10.0	18.5	17.0	17.5	22.0	20.0	21.0
17	0.5	0.5	0.5	9.5	8.0	9.0	19.0	17.5	18.0	22.5	21.0	22.0
18	0.5	0.5	0.5	8.0	6.0	7.0	19.5	18.0	19.0	24.0	21.5	22.5
19	0.5	0.5	0.5	6.0	5.0	5.5	19.0	18.5	18.5	24.5	22.5	23.5
20	0.5	0.5	0.5	5.0	4.0	4.5	19.5	18.0	19.0	24.5	22.5	23.5
21	0.5	0.5	0.5	5.5	4.5	5.0	19.0	17.5	18.0	24.0	23.0	23.5
22	1.0	0.5	0.5	5.5	3.5	5.0	17.5	14.5	16.0	24.5	22.5	23.5
23	1.0	0.5	0.5	6.5	5.0	5.5	15.5	14.0	15.0	24.5	22.5	23.5
24	0.5	0.0	0.5	6.5	4.5	5.5	15.5	14.0	14.5	25.0	22.0	23.5
25	0.5	0.0	0.5	7.5	5.0	6.5	14.0	13.0	13.5	25.5	22.5	24.0
26	0.0	0.0	0.0	8.5	7.0	7.5	13.5	12.0	13.0	25.0	22.5	23.5
27	0.0	0.0	0.0	9.5	8.5	9.0	14.5	12.5	13.5	25.0	22.0	23.5
28	0.5	0.0	0.5	11.5	9.5	10.5	14.0	11.5	13.0	25.0	22.5	24.0
29	---	---	---	13.0	11.0	12.0	13.5	11.0	12.5	25.5	23.0	24.5
30	---	---	---	13.0	12.0	12.5	14.0	12.5	13.0	25.5	23.0	24.0
31	---	---	---	11.5	9.5	10.5	---	---	---	25.5	23.0	24.0
MONTH	1.0	0.0	0.5	13.0	0.0	6.5	19.5	6.5	13.5	25.5	13.0	20.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.5	21.5	22.0	23.5	19.5	21.5	26.5	22.5	24.5	25.5	22.5	23.5
2	21.5	19.5	20.5	23.5	20.5	22.0	24.0	21.5	23.0	24.0	21.5	22.5
3	21.5	18.5	20.0	23.0	21.0	22.0	26.0	22.0	24.0	23.5	21.5	23.0
4	22.5	19.5	21.0	25.5	22.0	24.0	25.5	23.0	24.0	23.5	21.5	23.0
5	22.0	21.0	21.5	27.0	24.0	25.5	24.5	22.5	23.5	23.0	21.5	22.5
6	22.0	19.5	21.0	28.5	25.0	27.0	23.5	22.5	23.0	22.5	20.0	21.5
7	21.0	18.5	20.0	29.5	27.0	28.0	24.0	22.0	23.0	22.5	20.5	21.5
8	20.5	19.0	19.5	28.0	27.0	27.5	23.5	22.0	23.0	22.5	20.0	21.5
9	20.0	17.0	18.5	28.0	25.5	27.0	23.0	22.0	22.5	22.0	20.5	21.0
10	18.5	17.5	18.0	27.5	24.5	26.0	25.0	21.0	23.0	21.0	19.0	20.0
11	20.5	17.0	19.0	26.5	25.0	25.5	23.5	21.0	22.5	21.0	18.5	20.0
12	20.0	18.5	19.5	27.5	24.5	26.0	23.5	19.5	22.0	20.0	17.5	18.5
13	19.5	18.0	18.5	28.5	25.5	27.0	24.0	21.0	22.5	18.0	17.5	18.0
14	20.0	18.0	19.0	29.5	26.5	28.0	25.0	22.5	23.5	19.0	16.5	18.0
15	22.0	18.5	20.0	30.0	26.5	28.5	25.0	22.0	23.5	18.0	17.0	17.5
16	23.5	20.5	22.0	25.5	22.5	25.0	25.0	23.5	24.5	18.5	17.5	18.0
17	25.5	22.5	24.0	27.5	24.5	26.0	25.5	22.5	24.0	19.5	18.5	19.0
18	25.0	22.5	24.0	27.0	26.0	26.5	25.0	21.5	23.0	20.0	19.0	19.5
19	25.5	22.5	24.0	29.0	25.5	27.5	22.0	20.5	21.0	20.0	19.0	19.5
20	25.5	23.0	24.5	30.0	27.0	28.5	21.0	19.5	20.0	19.5	18.0	19.0
21	25.0	22.0	23.5	30.0	27.5	28.5	21.5	19.5	20.5	18.0	17.0	17.5
22	24.0	22.5	23.0	29.0	26.0	27.5	23.0	19.5	21.5	17.5	16.5	17.0
23	22.5	21.5	22.0	28.5	25.0	27.0	22.5	20.5	21.5	17.5	16.5	17.0
24	25.0	22.0	23.5	27.0	24.5	25.5	23.5	20.5	21.5	19.0	17.5	18.0
25	26.5	23.5	25.0	26.5	23.5	24.5	23.0	19.5	21.5	19.0	17.5	18.5
26	27.0	23.0	25.0	25.0	22.0	23.5	23.0	20.5	22.0	19.0	18.0	18.5
27	26.0	24.0	25.0	25.5	21.0	23.0	26.5	22.0	24.0	18.5	17.5	18.0
28	25.5	24.0	25.0	25.0	21.5	23.5	26.5	23.5	25.0	18.0	16.5	17.5
29	25.5	22.5	24.0	26.0	22.5	23.5	26.5	23.5	25.0	17.0	16.0	16.5
30	24.0	21.0	22.5	27.5	22.5	25.0	26.0	22.5	24.5	16.5	15.5	16.0
31	---	---	---	27.5	23.5	25.5	26.5	23.5	25.0	---	---	---
MONTH	27.0	17.0	22.0	30.0	19.5	25.5	26.5	19.5	23.0	25.5	15.5	19.5
YEAR	30.0	0.0	12.0									

05525000 IROQUOIS RIVER AT IROQUOIS, IL

LOCATION.--Lat 40°49'25", long 87°34'55", in SE¼ sec.15, T.27 N., R.11 W., Iroquois County, Hydrologic Unit 07120002, on left bank at upstream side of bridge on U.S. Highway 52 in Iroquois, 500 ft (152 m) upstream from Penn Central bridge and 4.5 mi (7.2 km) downstream from Indiana-Illinois State line.

DRAINAGE AREA.--686 mi^2 (1,777 km^2).

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 614.34 ft (187.251 m) above mean sea level. Prior to Aug. 5, 1945, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--33 years, 531 ft^3/s (15.04 m^3/s), 10.51 in/yr (267 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s (295 m^3/s) June 13, 1958, gage height, 26.31 ft (8.019 m); minimum, 5.2 ft^3/s (0.15 m^3/s) Sept. 13, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,280 ft^3/s (64.6 m^3/s) Aug. 12, gage height, 15.37 ft (4.685 m); minimum daily, 22 ft^3/s (0.62 m^3/s) Jan. 16-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	55	62	35	23	570	1820	198	131	90	39	225
2	50	61	60	35	23	446	1750	218	123	123	44	398
3	47	63	56	35	24	385	1640	346	113	126	38	577
4	42	58	54	35	25	488	1500	679	102	97	34	616
5	41	55	52	33	25	980	1360	1190	98	79	31	527
6	74	55	52	32	25	1200	1180	1630	152	67	95	435
7	180	54	52	30	25	1040	993	1760	242	55	283	371
8	232	53	52	28	25	845	823	1720	215	47	278	296
9	190	51	52	25	25	718	667	1580	187	87	292	236
10	141	52	54	25	25	614	563	1380	163	76	1100	194
11	114	52	54	24	27	536	501	1120	144	62	2200	164
12	96	52	54	23	37	495	448	866	132	55	2260	144
13	87	48	54	23	90	519	405	662	148	56	2110	451
14	82	45	52	23	150	549	376	538	141	72	1800	1520
15	77	44	50	23	270	542	355	461	121	79	1350	1790
16	69	45	54	22	300	486	346	403	102	64	856	2050
17	64	47	58	22	270	414	334	359	108	58	543	2070
18	62	48	60	22	250	491	318	329	109	60	402	2030
19	59	51	64	22	240	700	303	306	312	62	322	2130
20	56	50	66	22	230	787	292	285	359	56	271	2010
21	57	47	66	23	245	830	291	268	251	48	232	1810
22	58	48	56	23	270	839	285	250	164	44	266	1560
23	58	45	52	24	330	862	275	231	120	43	257	1270
24	57	42	48	24	700	976	272	218	112	43	218	996
25	57	50	45	24	900	998	263	276	90	51	174	788
26	57	60	45	24	940	971	251	249	83	66	143	675
27	57	86	45	23	900	925	238	211	72	99	123	587
28	55	90	42	23	735	1180	222	186	65	84	110	504
29	52	75	45	23	---	1660	202	166	63	62	157	469
30	50	65	37	23	---	1830	199	155	62	51	268	402
31	52	---	35	23	---	1870	---	142	---	47	261	---
TOTAL	2430	1647	1628	796	7129	25746	18472	18382	4284	2109	16557	27295
MEAN	78.4	54.9	52.5	25.7	255	831	616	593	143	68.0	534	910
MAX	232	90	66	35	940	1870	1820	1760	359	126	2260	2130
MIN	41	42	35	22	23	385	199	142	62	43	31	144
CFSM	.11	.08	.08	.04	.37	1.21	.90	.86	.21	.10	.78	1.33
IN.	.13	.09	.09	.04	.39	1.40	1.00	1.00	.23	.11	.90	1.48

CAL YR 1976 TOTAL 190885 MEAN 522 MAX 3850 MIN 25 CFSM .76 IN 10.35
WTR YR 1977 TOTAL 126475 MEAN 347 MAX 2260 MIN 22 CFSM .51 IN 6.86

05525500 SUGAR CREEK AT MILFORD, IL

LOCATION.--Lat 40°37'50", long 87°43'25", in N½ sec.16, T.25 N., R.12 W., Iroquois County, Hydrologic Unit 07120002, on right bank at downstream side of highway bridge, 200 ft (61 m) downstream from Mud Creek and 1 mi (2 km) west of Milford.

DRAINAGE AREA.--446 mi² (1,155 km²).

PERIOD OF RECORD.--July 1948 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 622.00 ft (189.586 m) above mean sea level. Prior to July 23, 1970, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--29 years, 346 ft³/s (9.799 m³/s), 10.54 in/yr (268 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,900 ft³/s (649 m³/s) Feb. 21, 1951, gage height, 20.90 ft (6.370 m), from rating curve extended above 8,200 ft³/s (232 m³/s); maximum gage height, 23.74 ft (7.236 m) Feb. 10, 1959, ice jam; minimum discharge, 2.0 ft³/s (0.057 m³/s) Sept. 1, 2, 7, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s (71 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 7	1645	2940	83.3	14.20	4.328	Sept. 14	1300	*4090	116	*18.34	5.590
Aug. 11	1445	3650	103	17.71	5.398	Sept. 30	1615	3330	94.3	16.88	5.145

Minimum daily discharge, 3.8 ft³/s (0.11 m³/s) Jan. 28 to Feb. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	12	6.0	4.4	3.8	107	441	65	46	23	8.2	151
2	11	11	5.8	4.3	3.8	88	870	165	43	19	7.5	119
3	6.2	9.9	5.6	4.3	3.8	84	992	584	39	17	7.3	110
4	6.2	8.1	5.6	4.3	3.8	98	678	553	35	14	7.2	104
5	5.7	8.8	5.6	4.3	3.9	203	525	950	34	10	18	83
6	33	9.1	5.6	4.3	3.9	150	376	2160	42	7.7	361	72
7	38	8.8	5.6	4.3	3.9	111	287	2860	37	5.7	904	64
8	26	8.4	5.6	4.3	4.0	101	242	2630	34	8.5	1890	57
9	20	8.4	5.6	4.3	4.5	117	207	1820	44	7.2	2720	53
10	15	8.8	5.8	4.3	4.8	119	195	1040	34	65	2780	42
11	12	8.8	6.0	4.2	7.2	101	176	643	29	34	3520	37
12	9.4	8.4	5.8	4.1	16	104	160	443	28	16	3240	39
13	7.9	8.1	5.6	4.0	25	122	151	351	25	15	2520	2270
14	7.0	8.4	5.6	4.0	29	98	146	302	23	12	1690	3530
15	7.3	9.9	5.6	4.0	30	74	143	258	20	9.4	954	2860
16	7.1	11	5.8	3.9	29	58	133	221	18	13	747	2270
17	7.0	11	6.0	3.9	26	50	126	195	18	14	684	2230
18	6.8	10	6.2	3.9	23	120	119	180	19	20	584	2190
19	6.9	10	6.6	3.9	23	199	114	167	22	23	376	1720
20	8.3	10	6.8	3.9	23	155	110	169	26	44	217	1180
21	8.4	10	6.6	4.0	24	131	107	158	22	50	175	849
22	7.2	10	6.3	4.0	24	121	102	148	22	76	280	701
23	7.6	9.1	6.0	4.0	30	161	98	131	25	71	199	688
24	9.8	9.5	5.8	4.0	340	284	92	120	27	36	150	647
25	12	11	5.8	4.0	338	314	90	138	25	28	111	514
26	12	13	5.8	4.0	215	258	84	131	22	20	86	395
27	11	18	5.8	3.9	160	213	79	107	20	16	74	314
28	11	10	5.4	3.8	120	449	74	92	20	14	66	269
29	11	6.6	5.2	3.8	---	1280	72	79	20	12	217	1020
30	14	6.2	4.8	3.8	---	1080	65	66	20	10	399	3010
31	16	---	4.5	3.8	---	711	---	52	---	9.0	236	---
TOTAL	374.8	293.3	178.8	126.0	1522.4	7241	7054	16978	839	719.5	25228.2	27588
MEAN	12.1	9.78	5.77	4.06	54.4	234	235	548	28.0	23.2	814	920
MAX	38	18	6.8	4.4	340	1280	992	2860	46	76	3520	3530
MIN	5.7	6.2	4.5	3.8	3.8	50	65	52	18	5.7	7.2	37
CFSM	.03	.02	.01	.009	.12	.53	.53	1.23	.06	.05	1.83	2.06
IN.	.03	.02	.01	.01	.13	.60	.59	1.42	.07	.06	2.10	2.30

CAL YR 1976 TOTAL 97661.3 MEAN 267 MAX 3860 MIN 4.5 CFSM .60 IN 8.15
WTR YR 1977 TOTAL 88143.0 MEAN 241 MAX 3530 MIN 3.8 CFSM .54 IN 7.35

05526000 IROQUOIS RIVER NEAR CHEBANSE, IL

LOCATION.--Lat 41°00'29", long 87°49'22", in SW¼ sec.10, T.29 N., R.13 W., Kankakee County, Hydrologic Unit 07120002, near center of left span on downstream side of highway bridge, 3 mi (5 km) downstream from Beaver Creek, 4.5 mi (7.2 km) east of Chebanse, and 6 mi (10 km) upstream from mouth.

DRAINAGE AREA.--2,091 mi² (5,416 km²).

PERIOD OF RECORD.--April 1923 to current year.

REVISED RECORDS.--WSP 1308: 1924-28(M), 1930(M), 1936(M), 1938(M), 1942(M), 1947(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 597.99 ft (182.267 m) above mean sea level. Prior to June 17, 1976, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--54 years, 1,586 ft³/s (44.92 m³/s), 10.30 in/yr (262 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,000 ft³/s (765 m³/s) May 13, 1933, gage height, 18.1 ft (5.52 m), from floodmark; minimum, 9 ft³/s (0.25 m³/s) Oct. 6-8, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in spring of 1913 reached a stage of 19.6 ft (5.97 m), discharge, about 34,000 ft³/s (963 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,500 ft³/s (326 m³/s) Sept. 17, gage height, 10.91 ft (3.325 m); minimum daily, 43 ft³/s (1.22 m³/s) Jan. 16-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	105	105	65	47	1660	4410	409	385	172	93	1140
2	127	107	100	60	49	1350	3740	417	344	180	85	2180
3	116	102	100	60	50	1090	3530	643	329	190	63	2390
4	106	101	100	60	50	988	3570	1700	303	198	55	2050
5	93	104	100	60	50	1270	3180	3190	291	190	54	1670
6	116	104	100	58	50	1830	2850	5630	281	166	72	1350
7	157	96	98	54	50	2610	2400	7250	331	133	275	1060
8	207	100	96	54	50	2000	2030	7400	374	111	1310	864
9	267	99	96	52	50	1550	1710	6970	430	90	2600	703
10	280	93	96	50	50	1420	1470	6070	437	103	5950	572
11	247	92	90	45	50	1260	1280	4660	399	120	9920	481
12	212	93	90	45	52	1200	1130	3250	352	136	10900	416
13	177	92	90	45	60	1340	1000	2400	340	137	10300	610
14	164	92	90	45	100	1330	914	1920	319	137	9100	4250
15	144	93	90	45	200	1280	886	1610	316	109	7260	7550
16	127	94	90	43	450	1140	868	1410	294	125	4830	10200
17	117	97	90	43	500	967	829	1210	273	137	2970	11500
18	119	97	90	43	500	914	784	1060	288	129	2010	11000
19	118	93	90	43	500	1080	746	948	327	129	1480	10100
20	105	98	90	43	450	1460	710	876	382	125	1110	8710
21	107	98	88	45	440	1670	679	824	476	121	901	7820
22	106	101	85	45	430	1730	663	780	432	125	900	6580
23	105	102	85	48	470	1840	654	709	350	145	920	4850
24	105	99	85	48	1160	2030	613	657	294	158	837	3910
25	107	110	85	48	1500	2230	574	619	248	173	680	3480
26	109	109	85	48	2000	2290	544	626	223	161	537	3170
27	105	117	85	48	1990	2130	526	641	206	133	436	2760
28	109	142	85	47	1830	2540	466	579	195	129	353	2270
29	109	130	80	47	---	4160	464	523	178	129	329	1900
30	104	110	75	47	---	5170	430	467	175	121	416	1630
31	103	---	70	47	---	4960	---	433	---	106	672	---
TOTAL	4295	3070	2799	1531	13178	58489	43650	65881	9572	4318	77418	117166
MEAN	139	102	90.3	49.4	471	1887	1455	2125	319	139	2497	3906
MAX	280	142	105	65	2000	5170	4410	7400	476	198	10900	11500
MIN	93	92	70	43	47	914	430	409	175	90	54	416
CFSM	.07	.05	.04	.02	.23	.90	.70	1.02	.15	.07	1.19	1.87
IN.	.08	.05	.05	.03	.23	1.04	.78	1.17	.17	.08	1.38	2.08

CAL YR 1976 TOTAL 576423 MEAN 1575 MAX 13600 MIN 58 CFSM .75 IN 10.25
WTR YR 1977 TOTAL 401367 MEAN 1100 MAX 11500 MIN 43 CFSM .53 IN 7.14

05527500 KANKAKEE RIVER NEAR WILMINGTON, IL

LOCATION.--Lat 41°20'48", long 88°11'11", in NW¼ sec.15, T.33 N., R.9 E., Will County, Hydrologic Unit 07120001, on right bank, 0.4 mi (0.6 km) downstream from Prairie Creek, 0.5 mi (0.8 km) upstream from bridge on Interstate 55, 5 mi (8 km) downstream from Wilmington, and 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--5,150 mi² (13,338 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 510.86 ft (155.710 m) above mean sea level.

REMARKS.--Water-discharge records good except those for winter periods, which are poor. Slight diurnal fluctuation at low flow caused by powerplants above station.

AVERAGE DISCHARGE.--44 years, 4,048 ft³/s (114.6 m³/s), 10.67 in/yr (271 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 75,900 ft³/s (2,150 m³/s) July 13, 1957, gage height, 11.40 ft (3.475 m); maximum gage height, 13.88 ft (4.231 m) Jan. 30, 1968, ice jam; minimum discharge, 204 ft³/s (5.78 m³/s) Aug. 1, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods in 1883, 1887 reached a stage of 16.73 ft (5.099 m), discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,200 ft³/s (459 m³/s) Sept. 19, gage height, 4.54 ft (1.384 m); minimum, 614 ft³/s (17.4 m³/s) Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	1000	1050	1000	900	6500	10800	3430	1650	1440	695	4010
2	1010	992	1050	1000	900	6000	10200	3390	1570	1490	679	8040
3	984	981	1050	1000	900	5600	9800	3430	1490	1520	646	6690
4	956	990	1050	1000	900	5200	9800	4200	1440	1650	662	5620
5	934	979	1050	1000	900	4800	9800	6640	1460	1770	695	4760
6	1070	969	1050	970	900	4800	9390	9640	1490	1770	695	4180
7	1060	983	1000	960	900	5000	8790	11300	1520	1740	711	3550
8	1190	1020	1000	950	900	6200	8250	11500	1540	1620	1460	3060
9	1350	1010	1000	950	900	6300	7690	11100	1590	1390	2710	2640
10	1460	1050	1000	950	920	6040	7180	10300	1620	1180	5900	2310
11	1450	1070	1000	900	970	5900	6690	9030	1650	1110	10900	2050
12	1380	1080	1000	900	1000	5990	6350	7380	1650	1070	12300	1850
13	1280	1060	1000	900	1100	6200	6040	5900	1650	1050	12000	2080
14	1210	1070	1000	900	1200	6040	5700	4960	1590	1010	10900	3700
15	1120	1100	1000	900	1400	5850	5510	4430	1540	1030	9350	8600
16	1080	1100	1050	900	1500	5600	5270	4040	1490	1650	7120	12000
17	1030	1080	1050	900	1600	5360	5080	3630	1390	1360	4720	13100
18	1020	1070	1050	900	1700	5220	4870	3320	1570	1180	3300	14600
19	1010	1050	1050	900	1800	5270	4710	3090	1740	1090	2600	15400
20	991	1040	1050	900	1750	5650	4630	2920	1520	989	2320	13600
21	967	1050	1000	920	1650	6140	4630	2810	1520	911	1870	12200
22	988	1030	1000	920	1500	6450	4430	2710	1570	930	1640	11000
23	996	1030	1000	920	1700	6690	4270	2640	1410	911	1620	9540
24	995	1020	1000	940	2500	7080	4120	2570	1180	930	1610	8840
25	1010	1030	950	940	3000	7280	4000	2430	1090	1160	1460	8450
26	1030	1090	1000	940	3400	7380	3870	2330	1070	1070	1300	7680
27	1020	1220	1000	900	4000	7230	3750	2270	970	872	1190	7090
28	997	1240	1000	900	5000	7640	3710	2200	911	799	1100	6430
29	961	1200	1000	900	---	10000	3590	2070	911	763	1230	5840
30	971	1000	1000	900	---	11400	3510	1950	1030	781	1100	5410
31	1010	---	1000	900	---	11300	---	1800	---	728	1240	---
TOTAL	33568	31594	31500	28860	45790	202110	186430	149410	42822	36964	105723	214320
MEAN	1083	1053	1016	931	1635	6520	6214	4820	1427	1192	3410	7144
MAX	1460	1240	1050	1000	5000	11400	10800	11500	1740	1770	12300	15400
MIN	934	969	950	900	900	4800	3510	1800	911	728	646	1850
CFSM	.21	.20	.20	.18	.32	1.27	1.21	.94	.28	.23	.66	1.39
IN.	.24	.23	.23	.21	.33	1.46	1.35	1.08	.31	.27	.76	1.55

CAL YR 1976 TOTAL 1648664 MEAN 4505 MAX 29400 MIN 749 CFSM .88 IN 11.91
WTR YR 1977 TOTAL 1109091 MEAN 3039 MAX 15400 MIN 646 CFSM .59 IN 8.01

05527500 KANKAKEE RIVER NEAR WILMINGTON, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1973 to September 1977 (discontinued).

INSTRUMENTATION.--Temperature recorder since June 1, 1973.

COOPERATION.--Chemical data were furnished by Illinois State Water Survey and were reviewed by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 34.0°C July 15, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 34.0°C July 15; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA. WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM
OCT												
28...	1040	1010	640	8.7	--	6.4	5.0	308	79	26	15	10
NOV												
03...	1250	937	610	8.8	--	8.0	4.0	296	74	26	14	10
DEC												
08...	1000	1000	860	--	--	.0	4.0	390	103	31	30	14
JAN												
11...	1615	900	700	7.0	--	.0	2.0	375	97	32	20	11
FEB												
28...	1345	5000	520	7.5	--	.0	22	224	58	18	14	12
MAR												
24...	1300	7190	660	8.0	8.0	7.5	10	314	82	26	15	10
APR												
11...	1115	6790	--	--	--	13.4	17	315	82	26	11	7
MAY												
11...	1400	8930	627	7.8	--	16.6	49	311	79	27	8.4	5
JUN												
22...	1400	1710	650	7.8	--	24.9	8.0	314	78	28	13	8
JUL												
23...	1130	930	600	7.4	--	27.0	12	298	75	26	13	9
AUG												
05...	1130	695	590	8.2	--	25.8	10	279	67	27	15	10
SEP												
14...	1530	4080	710	7.8	--	19.5	23	352	85	33	16	9

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT											
28...	.4	2.6	198	112	23	.2	4.6	405	.55	1100	7
NOV											
03...	.4	2.7	186	107	21	.2	1.9	389	.53	984	6
DEC											
08...	.7	4.1	232	148	51	.2	8.3	543	.74	1470	6
JAN											
11...	.5	2.8	240	122	32	.2	9.6	489	.67	1190	4
FEB											
28...	.4	5.0	134	81	26	.2	9.1	311	.42	4200	31
MAR											
24...	.4	2.9	180	111	36	.2	6.7	413	.56	8010	15
APR											
11...	.3	2.1	182	103	26	.2	5.9	366	.50	6710	34
MAY											
11...	.2	2.7	176	87	24	.2	10	366	.50	8830	109
JUN											
22...	.3	2.1	196	104	25	.2	5.8	381	.52	1760	16
JUL											
23...	.3	2.5	192	108	25	.2	9.7	394	.54	989	19
AUG											
05...	.4	2.5	174	101	26	.2	5.3	361	.49	677	23
SEP											
14...	.4	3.8	228	104	29	.2	10	436	.59	4800	44

05527500 KANKAKEE RIVER NEAR WILMINGTON, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT 28...	.72	3.2	.00	.00	.00	.00	.00	<100	100	0	0
NOV 03...	.24	1.1	.00	.00	.00	.00	.00	<100	100	0	0
DEC 08...	1.5	6.8	.31	.40	.03	.00	.00	<100	200	0	0
JAN 11...	.90	4.0	.69	.90	.03	.03	.10	<100	200	0	0
FEB 28...	2.1	9.5	.38	.50	.19	.09	.30	<100	100	0	0
MAR 24...	4.0	18	.15	.20	.06	.00	.00	<100	100	0	0
APR 11...	3.5	16	.07	.10	.22	.16	.50	<100	100	0	0
MAY 11...	9.3	41	.07	.10	.13	.03	.10	<100	100	0	0
JUN 22...	1.8	8.6	.00	.00	.03	.03	.10	<100	100	0	0
JUL 23...	.76	3.4	.00	.00	.06	.03	.10	<100	100	0	0
AUG 05...	.54	2.4	.07	.10	.09	.03	.10	<100	100	0	0
SEP 14...	2.7	12	.07	.10	.09	.06	.20	<100	400	0	0

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 28...	0	300	0	<50	10	0	0	<50	140	0
NOV 03...	0	300	20	<50	10	0	0	<50	170	0
DEC 08...	0	300	0	<50	30	40	30	<50	270	0
JAN 11...	0	200	10	<50	0	30	40	<50	200	0
FEB 28...	0	1500	860	<50	10	250	140	<50	140	0
MAR 24...	0	800	10	<50	0	50	30	<50	180	0
APR 11...	0	1900	30	<50	0	140	30	<50	150	0
MAY 11...	0	3300	20	<50	0	130	10	<50	100	0
JUN 22...	0	400	10	<50	10	60	0	<50	160	0
JUL 23...	0	600	0	<50	10	90	20	<50	140	0
AUG 05...	0	800	20	<50	10	100	10	<50	130	0
SEP 14...	10	1600	10	<50	10	100	60	<50	230	20

05527500 KANKAKEE RIVER NEAR WILMINGTON, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.5	15.5	17.0	8.0	6.0	7.0	0.5	0.0	0.0	0.0	0.0	0.0
2	21.0	16.5	18.0	9.5	6.5	7.5	0.5	0.0	0.0	0.0	0.0	0.0
3	21.5	18.0	19.0	8.5	5.5	6.5	0.5	0.0	0.0	0.0	0.0	0.0
4	21.5	18.0	19.5	6.5	4.5	5.5	0.5	0.0	0.5	0.0	0.0	0.0
5	19.5	15.0	18.0	6.0	4.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0
6	16.5	13.0	14.5	6.0	3.5	4.5	0.5	0.0	0.0	0.0	0.0	0.0
7	14.0	12.0	13.0	6.0	2.5	4.0	0.5	0.0	0.0	0.5	0.0	0.0
8	15.0	12.0	13.0	4.0	2.0	2.5	0.5	0.0	0.0	0.0	0.0	0.0
9	14.0	12.0	13.0	5.0	2.0	3.0	0.5	0.0	0.0	0.5	0.0	0.0
10	14.0	12.0	13.0	4.5	3.0	3.5	0.5	0.0	0.0	0.0	0.0	0.0
11	14.5	12.0	13.5	4.5	2.0	3.0	0.5	0.0	0.0	0.5	0.0	0.0
12	16.0	13.0	14.5	3.5	1.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0
13	15.5	13.5	14.5	3.0	1.0	1.5	0.5	0.0	0.0	0.5	0.0	0.0
14	15.0	12.5	13.5	3.0	0.5	1.5	0.5	0.0	0.0	0.5	0.0	0.0
15	14.0	11.5	12.5	3.0	1.0	1.5	0.5	0.0	0.5	0.5	0.0	0.5
16	13.0	10.5	11.0	3.5	1.0	2.0	0.5	0.0	0.0	0.5	0.0	0.0
17	11.5	9.0	10.0	3.5	1.5	2.0	0.5	0.0	0.5	0.0	0.0	0.0
18	11.5	8.5	9.5	4.5	1.5	3.0	0.5	0.0	0.5	0.0	0.0	0.0
19	9.5	8.5	9.0	5.0	3.0	3.5	0.5	0.0	0.0	0.0	0.0	0.0
20	9.5	7.5	8.5	5.0	2.5	3.5	0.5	0.0	0.0	0.0	0.0	0.0
21	8.5	6.0	7.0	3.5	2.0	2.5	0.5	0.0	0.0	0.0	0.0	0.0
22	8.5	5.5	6.5	2.0	0.5	1.5	0.0	0.0	0.0	0.5	0.0	0.0
23	6.5	6.0	6.0	2.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0
24	7.5	6.0	7.0	1.5	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
25	8.0	6.5	7.0	5.0	1.0	2.5	0.5	0.0	0.0	0.0	0.0	0.0
26	9.0	6.5	7.5	6.5	5.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0
27	8.5	6.5	7.5	5.5	1.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
28	8.5	5.5	6.5	1.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
29	8.0	5.5	6.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	7.0	6.5	7.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	9.0	6.5	7.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	21.5	5.5	11.5	9.5	0.0	3.0	0.5	0.0	0.0	0.5	0.0	0.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	0.0	0.0	0.0	10.5	8.5	9.5	17.0	13.5	15.5
2	0.0	0.0	0.0	0.0	0.0	0.0	13.0	10.0	11.0	17.0	14.5	16.0
3	0.0	0.0	0.0	0.0	0.0	0.0	13.0	10.0	11.5	17.0	14.0	15.5
4	0.0	0.0	0.0	0.0	0.0	0.0	11.5	10.0	11.0	18.0	15.5	16.5
5	0.0	0.0	0.0	0.0	0.0	0.0	9.5	7.0	8.5	22.5	16.5	19.0
6	0.0	0.0	0.0	0.5	0.0	0.0	8.5	6.0	7.5	19.5	17.5	18.5
7	0.0	0.0	0.0	1.0	0.0	0.0	10.5	6.5	8.5	18.5	16.0	17.0
8	0.0	0.0	0.0	4.5	0.0	2.5	10.5	7.5	9.0	17.5	15.0	16.0
9	0.0	0.0	0.0	6.0	3.5	4.5	10.5	8.0	9.5	16.5	14.0	15.0
10	0.0	0.0	0.0	7.5	5.0	6.5	13.5	9.0	11.5	16.5	13.5	15.0
11	0.0	0.0	0.0	9.5	7.5	8.0	15.5	12.0	14.0	17.5	14.5	16.0
12	0.0	0.0	0.0	12.0	9.5	10.5	17.0	14.0	15.5	18.5	15.0	17.0
13	0.0	0.0	0.0	10.5	9.0	9.5	16.5	15.5	16.0	20.5	16.5	18.5
14	0.0	0.0	0.0	11.5	9.0	10.0	18.0	15.5	17.0	21.5	19.0	20.0
15	0.0	0.0	0.0	12.5	10.0	11.0	18.5	16.5	17.5	22.0	20.0	21.0
16	0.0	0.0	0.0	11.0	9.5	10.0	19.5	17.0	18.0	24.0	20.5	22.0
17	0.0	0.0	0.0	9.5	8.0	9.0	20.0	18.0	19.0	25.5	22.0	23.5
18	0.0	0.0	0.0	8.0	6.5	7.5	21.0	18.5	19.5	27.5	23.0	25.0
19	0.0	0.0	0.0	6.5	5.0	6.0	19.5	18.5	19.0	29.0	24.5	26.5
20	0.0	0.0	0.0	6.5	4.5	5.0	21.0	18.5	19.5	28.5	24.5	26.5
21	0.0	0.0	0.0	5.5	4.0	5.0	19.5	18.0	19.0	27.0	24.0	25.5
22	0.0	0.0	0.0	6.0	3.0	4.5	18.0	15.5	16.5	27.0	23.5	25.0
23	0.0	0.0	0.0	8.0	4.5	6.0	17.0	14.5	16.0	28.5	23.5	25.5
24	0.0	0.0	0.0	8.0	4.5	6.5	17.0	14.0	15.5	29.5	23.5	26.5
25	0.0	0.0	0.0	8.5	5.0	7.0	14.5	13.0	14.0	30.5	25.0	27.5
26	0.0	0.0	0.0	9.5	6.5	8.0	16.5	12.0	14.0	30.5	25.0	27.5
27	0.0	0.0	0.0	9.5	8.5	9.0	18.0	13.5	15.5	29.5	24.0	26.5
28	0.0	0.0	0.0	11.0	9.5	10.0	15.5	12.5	14.5	28.5	24.0	26.5
29	---	---	---	13.5	10.5	12.0	16.5	11.5	13.5	29.0	24.5	27.0
30	---	---	---	13.0	11.0	12.0	16.0	12.5	14.5	29.5	24.5	27.0
31	---	---	---	11.0	9.5	10.0	---	---	---	28.5	25.0	26.5
MONTH	0.0	0.0	0.0	13.5	0.0	6.0	21.0	6.0	14.0	30.5	13.5	21.5

05527500 KANKAKEE RIVER NEAR WILMINGTON, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MFAN
		JUNF			JULY			AUGUST			SEPTEMBFR	
1	24.5	22.0	23.5	25.0	21.0	22.5	28.0	23.5	25.5	27.0	23.5	24.5
2	24.5	21.0	22.5	26.0	21.0	23.5	27.0	23.5	25.0	24.5	22.5	23.5
3	25.0	19.5	22.0	27.0	22.5	24.5	31.0	24.0	23.5	25.0	22.0	23.5
4	26.5	21.5	24.0	30.0	25.0	27.0	28.5	25.0	26.0	26.0	22.5	24.0
5	26.0	24.0	25.0	32.0	27.0	29.5	26.0	24.5	25.5	25.0	23.5	24.5
6	25.0	21.5	24.0	32.0	27.5	30.0	26.5	25.0	25.5	25.0	21.0	23.0
7	24.5	19.0	21.5	31.5	28.5	30.0	29.0	24.5	26.0	25.0	22.0	23.5
8	23.0	20.0	21.0	30.5	28.0	28.5	26.5	24.5	25.5	25.5	21.5	23.5
9	22.5	18.0	20.5	30.0	26.0	28.0	25.5	24.5	25.0	25.0	22.0	23.0
10	21.5	18.5	20.0	29.0	25.0	27.0	27.0	24.5	25.5	23.5	20.0	21.5
11	23.0	18.5	20.5	28.5	26.5	27.5	25.5	23.0	24.0	24.0	19.5	21.5
12	22.5	20.0	20.5	29.5	26.5	28.0	24.5	22.0	23.5	22.0	20.0	20.5
13	21.5	19.0	20.0	32.0	27.5	29.5	24.5	22.5	23.5	20.0	19.0	19.5
14	23.5	18.5	20.5	33.0	29.0	30.5	25.0	23.0	24.0	20.5	17.5	19.0
15	25.0	19.5	22.0	34.0	28.5	31.0	25.0	23.0	24.0	19.0	17.5	18.5
16	26.5	22.0	24.0	29.5	28.0	28.5	25.5	24.0	24.5	19.0	17.5	18.0
17	28.5	24.5	26.0	29.0	26.0	27.5	25.5	23.5	24.5	20.0	18.5	19.0
18	27.5	25.0	26.0	28.5	26.0	27.5	25.5	23.0	24.0	20.5	19.5	20.0
19	28.5	24.5	26.0	31.5	26.5	28.5	24.5	22.0	23.0	20.5	19.0	20.0
20	28.0	24.0	26.0	32.0	28.0	29.5	24.0	21.0	22.5	19.0	17.5	18.5
21	27.5	23.5	25.5	32.0	28.5	30.0	24.0	21.5	22.5	19.0	16.5	18.0
22	26.5	24.0	25.5	31.0	27.0	28.5	25.0	21.5	23.0	18.5	17.5	18.0
23	25.0	23.0	24.0	31.0	26.5	28.0	25.0	23.0	24.0	18.5	17.0	18.0
24	27.5	24.0	25.5	28.5	27.0	27.5	25.5	22.0	23.5	21.0	18.0	19.0
25	29.0	25.0	27.0	30.0	26.5	28.0	25.5	21.0	23.0	20.5	18.0	19.0
26	29.5	25.0	27.0	28.0	24.0	26.0	24.5	22.5	23.5	20.5	18.0	19.5
27	28.5	26.0	27.0	28.5	23.0	25.5	28.0	24.5	26.0	19.0	17.5	18.5
28	28.0	25.0	27.0	28.0	23.5	25.5	27.0	25.0	26.0	19.5	16.5	18.0
29	27.5	23.5	25.0	29.5	24.5	26.5	28.0	24.5	25.5	18.5	16.5	17.5
30	25.0	22.0	24.0	30.0	25.0	27.0	28.0	23.5	25.5	18.5	17.0	18.0
31	---	---	---	30.0	25.0	27.0	28.5	24.5	26.5	---	---	---
MONTH	29.5	18.0	24.0	34.0	21.0	27.5	31.0	21.0	24.5	27.0	16.5	20.5
YFAR	34.0	0.0	13.0									

05527800 DES PLAINES RIVER AT RUSSELL, IL

LOCATION.--Lat 42°29'22", long 87°55'32", in SE¼ sec.3, T.46 N., R.11 E., Lake County, Hydrologic Unit 07120004, at center of downstream side of bridge on Russell Road, 0.3 mi (0.5 km) west of Russell, 7.2 mi (11.6 km) upstream from Mill Creek, and at mile 109.14 (175.61 km).

DRAINAGE AREA.--123 mi² (319 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961-63, and annual maximum, water years 1962-66. June 1967 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area. WDR IL-76: 1960-68(M), 1973(M).

GAGE.--Water-stage recorder. Datum of gage is 662.00 ft (201.778 m) above mean sea level. Oct. 17, 1961, to June 29, 1967, crest-stage gage at left downstream side of bridge at datum 4.29 ft (1.308 m) higher.

REMARKS.--Records fair except those for winter periods and those for periods of no gage-height record, Dec. 9 to Jan. 30, Feb. 1 to Mar. 11, July 8 to Aug. 17, which are poor.

AVERAGE DISCHARGE.--10 years, 88.3 ft³/s (2.501 m³/s), 9.75 in/yr (248 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,990 ft³/s (56.4 m³/s) Mar. 6, 1976, gage height, 10.75 ft (3.277 m); no flow at times during several years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 105 ft³/s (2.97 m³/s) Mar. 31, gage height, 3.76 ft (1.146 m); minimum observed, 1.0 ft³/s (0.028 m³/s) Jan. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	10	4.1	1.6	1.2	3.8	97	11	2.7	29	2.0	4.0
2	1.6	10	3.8	1.6	1.3	3.7	79	9.4	2.5	48	2.2	4.4
3	1.3	11	3.6	1.7	1.3	4.8	61	7.5	2.8	57	2.4	4.7
4	1.8	9.8	3.4	1.9	1.4	21	54	9.5	3.5	49	2.9	4.4
5	4.7	8.9	3.1	2.0	1.4	20	61	11	4.5	33	2.8	3.9
6	6.3	9.4	3.7	2.0	1.5	16	74	10	3.4	19	2.5	2.8
7	5.3	8.7	3.6	1.8	1.6	14	76	9.3	2.8	11	2.3	2.8
8	3.9	10	3.3	1.5	1.9	15	62	8.2	4.4	5.5	4.7	3.1
9	5.9	8.5	3.5	1.4	1.8	18	49	6.0	5.0	4.2	4.2	2.8
10	7.7	7.7	3.7	1.5	1.7	24	41	5.2	4.3	3.9	3.5	2.5
11	7.2	7.6	3.3	1.5	1.7	31	35	5.1	5.2	4.3	3.0	2.5
12	6.6	7.4	3.0	1.6	2.0	35	28	5.9	6.3	7.7	2.8	2.7
13	6.1	7.3	2.9	1.6	2.2	32	23	7.0	9.4	6.5	2.6	3.0
14	5.9	7.3	3.1	1.5	2.1	30	21	6.3	9.2	4.5	2.4	3.4
15	5.9	7.3	3.4	1.4	2.0	24	20	5.7	12	3.8	2.3	3.7
16	5.5	7.1	3.7	1.3	1.9	18	19	4.1	5.1	2.6	2.2	4.4
17	5.3	6.9	3.8	1.2	1.8	14	18	5.1	3.6	2.3	2.6	4.5
18	5.9	7.3	3.7	1.2	1.9	12	16	5.5	4.6	3.7	3.0	5.2
19	7.2	7.0	3.5	1.3	1.9	11	15	4.8	5.3	3.5	2.8	5.6
20	8.7	6.2	3.2	1.4	1.9	14	17	5.3	4.2	3.1	2.7	6.5
21	11	6.0	2.9	1.3	2.0	17	18	5.5	3.2	2.9	2.4	7.0
22	9.7	6.3	2.7	1.2	2.1	23	18	6.2	2.7	4.2	2.3	7.3
23	9.7	6.7	2.4	1.2	2.5	24	17	5.2	2.8	3.9	2.2	7.3
24	10	5.8	2.2	1.2	3.9	24	13	4.2	3.2	4.7	2.0	7.7
25	12	6.1	2.2	1.3	6.6	22	11	3.7	3.1	4.3	1.9	7.4
26	13	6.0	2.3	1.4	5.6	19	11	3.4	8.2	3.3	1.9	6.2
27	12	6.2	2.4	1.5	4.5	18	12	3.4	12	2.9	1.9	5.4
28	12	6.0	2.4	1.5	4.1	21	12	3.7	10	2.5	1.7	6.0
29	11	5.4	2.2	1.3	---	59	12	6.4	9.7	2.2	1.9	7.8
30	11	4.6	2.0	1.2	---	95	11	3.9	18	2.0	2.4	5.8
31	11	---	1.8	1.1	---	105	---	3.2	---	1.9	3.9	---
TOTAL	226.7	224.5	94.9	45.2	65.8	788.3	1001	190.7	173.7	336.4	80.4	144.8
MEAN	7.31	7.48	3.06	1.46	2.35	25.4	33.4	6.15	5.79	10.9	2.59	4.83
MAX	13	11	4.1	2.0	6.6	105	97	11	18	57	4.7	7.8
MIN	1.3	4.6	1.8	1.1	1.2	3.7	11	3.2	2.5	1.9	1.7	2.5
CFSM	.06	.06	.03	.01	.02	.21	.27	.05	.05	.09	.02	.04
IN.	.07	.07	.03	.01	.02	.24	.30	.06	.05	.10	.02	.04

CAL YR 1976 TOTAL 34004.75 MEAN 92.9 MAX 1940 MIN .16 CFSM .76 IN 10.28
WTR YR 1977 TOTAL 3372.40 MEAN 9.24 MAX 105 MIN 1.1 CFSM .08 IN 1.02

05528000 DES PLAINES RIVER NEAR GURNEE, IL

LOCATION.--Lat 42°20'39", long 87°56'18", in SE¼SW¼ sec.27, T.45 N., R.11 E., Lake County, Hydrologic Unit 07120004, on left bank 800 ft (244 m) upstream from bridge on State Highway 120, 2.5 mi (4.0 km) southwest of Gurnee, and at mile 94.34 (151.79 km).

DRAINAGE AREA.--232 mi² (601 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1945 to September 1958, and annual maximums, water years 1960-68, October 1968 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area. WDR IL-76: 1960(M), 1962(M).

GAGE.--Water-stage recorder. Datum of gage is 650.30 ft (198.211 m) above mean sea level (Corps of Engineers bench mark). Prior to May 26, 1946, nonrecording gage at site 825 ft (251 m) downstream at same datum. May 27, 1946, to Sept. 30, 1958, water-stage recorder at site 800 ft (244 m) downstream at same datum. Dec. 17, 1959, to September 1968, crest-stage gage at site 800 ft (244 m) downstream at same datum.

REMARKS.--Water-discharge records good. Effluent from sewage treatment plant 0.5 mi (0.8 km) upstream averaged about 9 ft³/s (0.3 m³/s). Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--22 years (water years 1946-58, 1969-77), 152 ft³/s (4.305 m³/s), 8.90 in/yr (226 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,070 ft³/s (115 m³/s) Apr. 3, 1960, gage height, 10.64 ft (3.243 m); no flow Sept. 26 to Oct. 19, 1956, and part of each day Aug. 27-30, Sept. 1, 2, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 173 ft³/s (4.90 m³/s) Mar. 30, gage height, 2.42 ft (0.738 m); minimum daily, 7.5 ft³/s (0.21 m³/s) Feb. 6.

REVISIONS.--The maximum discharge for the water year 1971 has been revised to 1,610 ft³/s (45.6 m³/s) Feb. 23, 1971; maximum gage height, 8.44 ft (2.573 m) Feb. 25, ice jam. Revised daily discharges, in cubic feet per second, for the high-water period in February 1971, are given below. These figures supersede those published in reports for 1971 and 1976.

Feb. 19	700	Feb. 22	1,500	Feb. 25	1,450
20	1,100	23	1,600	26	1,400
21	1,350	24	1,500	27	1,500

Month	Total	Mean	Max	Min	Cfsm	In.
February 1971	14,036	501	1,600	16	2.16	2.25
Wtr yr 1971	63,158.3	173	1,600	2.1	0.75	10.20
Cal yr 1971	48,043.3	132	1,600	2.1	0.57	7.74

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	20	14	8.9	8.0	20	153	56	22	42	9.2	14
2	9.4	19	13	9.1	8.3	23	149	51	19	43	10	17
3	8.4	18	13	12	8.5	28	132	48	16	53	11	15
4	11	18	12	13	8.0	69	120	45	14	61	13	14
5	19	18	11	14	7.6	60	122	56	20	58	14	14
6	21	16	14	15	7.5	54	122	51	22	47	13	14
7	15	14	14	14	7.6	45	120	46	20	36	12	16
8	12	15	14	11	8.3	46	118	41	19	28	29	14
9	10	16	14	9.6	9.0	64	104	36	19	22	24	13
10	11	18	14	11	10	70	88	32	19	17	22	11
11	21	16	12	12	11	73	79	31	30	17	19	11
12	20	15	11	12	10	84	71	29	24	25	19	12
13	17	14	11	12	9.4	78	64	28	21	22	17	14
14	15	15	13	12	9.0	62	56	26	26	19	15	14
15	14	16	13	11	8.8	55	54	20	27	17	15	16
16	13	17	13	8.9	9.1	46	46	24	26	13	18	19
17	14	18	15	9.4	9.7	40	42	30	28	11	17	17
18	15	19	15	10	9.9	41	42	26	54	17	17	34
19	18	19	13	12	9.6	37	39	27	41	16	16	30
20	19	17	15	12	9.3	39	67	26	28	15	13	22
21	18	16	14	11	9.7	45	60	28	22	15	10	21
22	19	16	13	8.9	11	51	62	29	19	18	13	17
23	21	15	12	7.6	17	56	58	22	16	18	13	20
24	19	15	10	9.1	23	52	52	21	15	19	18	24
25	21	14	9.8	9.9	28	47	53	21	13	18	13	21
26	22	15	10	9.2	26	41	47	21	14	16	13	25
27	22	19	13	9.9	21	39	44	20	12	14	12	24
28	21	15	13	10	19	60	84	18	25	13	10	22
29	19	16	13	8.9	---	159	83	16	24	12	13	21
30	19	17	12	7.7	---	169	67	17	37	10	14	22
31	19	---	10	7.6	---	162	---	28	---	9.2	13	---
TOTAL	514.8	496	393.8	328.7	333.3	1915	2398	970	692	741.2	465.2	548
MEAN	16.6	16.5	12.7	10.6	11.9	61.8	79.9	31.3	23.1	23.9	15.0	18.3
MAX	22	20	15	15	28	169	153	56	54	61	29	34
MIN	8.4	14	9.8	7.6	7.5	20	39	16	12	9.2	9.2	11
CFSM	.07	.07	.06	.05	.05	.27	.34	.14	.10	.10	.07	.08
IN.	.08	.08	.06	.05	.05	.31	.38	.16	.11	.12	.07	.09

CAL YR 1976 TOTAL 69699.9 MEAN 190 MAX 2550 MIN 8.4 CFSM .82 IN 11.18
WTR YR 1977 TOTAL 9796.0 MEAN 26.8 MAX 169 MIN 7.5 CFSM .12 IN 1.57

05528000 DES PLAINES RIVER AT GURNEE, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to September 1977.

COOPERATION.--Chemical data were furnished by Illinois State Water Survey and reviewed by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM
OCT 27...	1415	24	1080	7.6	11.2	.00	--	337	77	35	100	38
NOV 29...	1430	17	1130	8.3	4.0	7.0	14.4	344	80	34	107	39
DEC 29...	1400	12	1240	7.6	2.5	6.0	--	349	84	33	109	39
JAN 28...	1100	8.3	1480	7.4	1.0	27	--	229	59	19	200	64
FEB 24...	1030	23	1320	7.3	5.5	48	--	248	59	24	136	53
MAR 30...	1500	173	1160	8.4	12.0	35	--	354	81	36	101	38
APR 20...	1430	72	1150	8.0	20.0	24	--	410	89	45	84	31
MAY 18...	1230	26	1140	7.6	25.0	16	--	348	78	36	99	38
JUN 28...	1615	26	1220	7.6	26.5	17	--	353	81	36	107	39
JUL 20...	1115	15	1090	7.6	29.0	12	4.8	262	64	24	99	44
AUG 16...	1430	20	1140	7.6	26.0	17	--	269	63	27	103	44
SEP 19...	1330	30	1320	7.5	22.5	25	--	287	66	29	95	41

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT 27...	2.4	9.2	192	221	76	.9	10	690	.94	44.7	8
NOV 29...	2.5	11	188	213	106	.9	8.8	737	1.00	35.0	16
DEC 29...	2.5	11	184	206	104	1.0	9.3	746	1.01	24.2	11
JAN 28...	5.8	15	256	216	168	1.9	10	833	1.13	18.7	71
FEB 24...	3.8	10	170	117	205	.7	8.5	672	.91	41.7	94
MAR 30...	2.3	5.1	180	166	168	.4	5.7	707	.96	330	80
APR 20...	1.8	5.4	228	194	126	.5	5.5	711	.97	138	42
MAY 18...	2.3	8.0	202	186	130	.8	6.9	679	.92	48.0	31
JUN 28...	2.5	11	246	244	94	1.1	8.1	720	.98	51.1	25
JUL 20...	2.7	12	244	160	95	1.2	9.0	594	.81	24.4	15
AUG 16...	2.7	16	188	156	110	1.2	7.8	623	.85	33.8	23
SEP 19...	2.5	10	209	170	108	.8	8.2	597	.81	48.7	27

05528000 DES PLAINES RIVER AT GURNEE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT 27...	9.3	42	.38	.50	1.4	1.3	4.2	<100	300	0	0
NOV 29...	8.8	39	.54	.70	1.2	1.1	3.4	<100	300	0	0
DEC 29...	10	45	1.3	1.7	2.1	2.0	6.4	<100	300	0	30
JAN 28...	1.4	6.6	14	18	.81	.55	1.7	<100	500	0	0
FEB 24...	.72	3.2	7.2	9.3	.97	.42	1.3	<100	200	0	0
MAR 30...	1.6	7.1	1.9	2.5	.35	.26	.80	<100	200	0	0
APR 20...	.72	3.2	3.9	5.1	.55	.48	1.5	<100	200	0	0
MAY 18...	2.1	9.4	4.8	6.2	.60	.58	1.8	<100	300	0	0
JUN 28...	.38	1.7	10	14	.94	.91	2.8	<100	400	0	0
JUL 20...	.27	1.2	16	21	1.7	1.7	5.3	<100	400	0	10
AUG 16...	.33	1.5	7.9	10	4.6	4.4	13	<100	400	10	0
SEP 19...	.27	1.2	9.0	12	.32	.29	.90	<100	300	0	0

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 27...	0	200	0	<50	10	60	50	<50	500	40
NOV 29...	0	200	30	<50	10	50	50	<50	660	40
DEC 29...	0	300	100	<50	540	50	50	<50	500	70
JAN 28...	20	1500	180	<50	30	90	70	<50	540	130
FEB 24...	10	1700	200	<50	0	70	70	<50	440	30
MAR 30...	0	1800	20	<50	50	130	50	<50	410	10
APR 20...	0	1300	30	<50	20	180	140	<50	510	20
MAY 18...	10	1600	140	<50	10	190	150	<50	560	150
JUN 28...	10	1000	170	<50	330	210	40	<50	500	20
JUL 20...	30	900	130	<50	210	120	110	<50	500	50
AUG 16...	10	700	70	<50	10	120	100	<50	520	20
SEP 19...	0	1100	40	<50	10	120	90	<50	570	10

05528500 BUFFALO CREEK NEAR WHEELING, IL

LOCATION.--Lat 42°09'05", long 87°57'25", in NE¼NW¼ sec.4, T.42 N., R.11 E., Cook County, Hydrologic Unit 07120004, on left bank at downstream side of bridge on Buffalo Grove Road, 1.0 mi (1.6 km) downstream from unnamed tributary, 2.5 mi (4.0 km) west of Wheeling, and at mile 4.98 (8.01 km).

DRAINAGE AREA.--19.6 mi² (50.8 km²).

PERIOD OF RECORD.--August 1952 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 658.60 ft (200.741 m) above mean sea level (Cook County Highway Department bench mark).

REMARKS.--Records good except those for winter periods and those for period of no gage-height record, Jan. 1 to Mar. 10, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--25 years, 15.7 ft³/s (0.445 m³/s), 10.88 in/yr (276 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 802 ft³/s (22.7 m³/s) Aug. 25, 1972, gage height, 7.27 ft (2.216 m); no flow at times in several years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 116 ft³/s (3.29 m³/s) Mar. 29, gage height, 3.32 ft (1.012 m), no peak above base of 200 ft³/s (5.7 m³/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	2.1	.54	.56	.00	20	26	6.6	.81	4.6	.13	12
2	.15	1.7	.55	.60	.00	18	27	5.9	.43	1.9	.06	4.4
3	.12	1.5	.56	.64	.04	17	20	5.0	.42	1.4	.11	1.9
4	.10	1.7	.58	.68	.08	24	23	6.9	.25	1.2	9.2	1.4
5	4.4	1.7	.60	.60	.04	33	17	15	4.4	1.2	8.1	.99
6	6.7	1.5	.62	.29	.00	28	16	8.1	1.5	.47	4.9	.80
7	3.9	1.4	.64	.20	.00	26	12	6.9	.86	.26	3.3	.60
8	2.8	1.5	.66	.08	.10	24	9.3	5.7	5.4	.19	10	.52
9	1.6	1.4	.68	.02	1.3	22	8.0	4.7	3.6	.14	6.2	.46
10	.96	1.5	.76	.00	10	17	7.3	4.0	1.6	.08	5.0	.45
11	.96	1.6	.72	.00	13	13	7.9	3.8	6.1	.09	6.4	.46
12	.85	1.7	.66	.00	13	22	6.5	3.2	2.2	.06	4.5	.13
13	.97	1.6	.62	.00	12	20	5.3	2.8	1.6	.05	3.0	7.3
14	.62	1.6	.62	.00	11	16	5.0	2.3	1.2	.05	2.3	4.1
15	.50	1.6	.63	.00	10	13	4.6	2.1	.91	.05	1.7	12
16	.45	1.6	.64	.00	9.8	9.6	4.5	2.0	.71	.06	2.0	6.3
17	.35	1.5	.65	.00	8.4	8.3	4.1	1.9	1.0	1.0	1.4	12
18	.52	1.6	.67	.00	8.1	12	3.9	1.2	1.8	6.3	.82	18
19	.58	1.7	.68	.00	7.8	9.8	7.0	1.1	.77	2.4	.55	8.0
20	.54	1.7	.68	.00	7.7	14	10	1.5	.59	.88	.44	5.2
21	.57	1.7	.66	.00	8.3	16	8.7	2.3	.46	1.3	.88	2.7
22	.59	1.6	.65	.00	9.8	21	8.7	1.9	.36	.92	1.0	1.6
23	.65	1.4	.62	.00	13	19	8.0	1.2	.37	.40	1.1	1.9
24	1.2	1.5	.60	.04	26	15	7.0	.81	.44	2.3	.80	8.2
25	1.4	1.8	.57	.00	33	13	6.2	.55	.41	1.5	.62	4.1
26	1.1	2.3	.54	.08	37	11	5.5	.44	.27	.49	.52	3.2
27	.91	5.3	.52	.00	25	9.0	5.0	.38	.18	.27	.67	2.4
28	.77	1.1	.54	.00	30	35	13	.36	.24	.23	2.0	1.9
29	.84	.54	.53	.00	---	79	8.8	.62	.58	.64	7.1	1.6
30	2.7	.52	.52	.00	---	61	7.7	.47	14	.39	2.4	3.5
31	4.2	---	.50	.00	---	37	---	3.5	---	.27	1.6	---
TOTAL	42.20	49.96	19.01	3.79	294.46	682.7	303.0	103.23	53.46	31.09	88.80	128.11
MEAN	1.36	1.67	.61	.12	10.5	22.0	10.1	3.33	1.78	1.00	2.86	4.27
MAX	6.7	5.3	.76	.68	37	79	27	15	14	6.3	10	18
MIN	.10	.52	.50	.00	.00	8.3	3.9	.36	.18	.05	.06	.13
CFSM	.07	.09	.03	.006	.54	1.12	.52	.17	.09	.05	.15	.22
IN.	.08	.09	.04	.01	.56	1.30	.58	.20	.10	.06	.17	.24

CAL YR 1976 TOTAL 6095.95 MEAN 16.7 MAX 331 MIN .02 CFSM .85 IN 11.57
WTR YR 1977 TOTAL 1799.81 MEAN 4.93 MAX 79 MIN .00 CFSM .25 IN 3.42

05529000 DES PLAINES RIVER NEAR DES PLAINES, IL

LOCATION.--Lat 42°04'55", long 87°53'25", in SE¼SE¼ sec.25, T.42 N., R.11 E., Cook County, Hydrologic Unit 07120004, on right bank 50 ft (15 m) upstream from Dam No. 2 of Cook County Forest Preserve, 0.3 mi (0.5 km) downstream from Lake Avenue Bridge, 1.2 mi (1.9 km) upstream from Central Road Bridge, 2.5 miles (4.0 km) north of Des Plaines, and at mile 69.30 (111.50 km).

DRAINAGE AREA.--360 mi^2 (932 km^2).

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 975: 1942. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and masonry dam. Datum of gage is 626.31 ft (190.899 m) above mean sea level. Prior to Apr. 8, 1941, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--37 years, 236 ft^3/s (6.684 m^3/s), 8.90 in/yr (226 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,670 ft^3/s (132 m^3/s) Apr. 2, 1960, gage height, 8.56 ft (2.609 m); no flow for many days in 1944, 1946, and Aug. 7, 8, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 4, 1938, reached a stage of 9.0 ft (2.74 m), from floodmark, discharge, 5,000 ft^3/s (142 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 514 ft^3/s (14.6 m^3/s) Mar. 29, gage height, 1.56 ft (0.475 m), no peak above base of 1,000 ft^3/s (28 m^3/s); minimum daily, 12 ft^3/s (0.34 m^3/s) Feb. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	44	31	19	16	44	256	100	46	95	18	74
2	28	37	31	18	17	44	262	88	37	65	21	57
3	18	37	27	18	17	45	232	80	33	57	23	44
4	18	37	28	19	15	104	219	87	73	64	81	39
5	51	37	27	19	14	176	212	125	42	68	91	39
6	91	40	26	20	12	128	193	117	41	71	91	30
7	54	44	28	20	12	112	183	101	76	60	57	29
8	34	42	28	22	14	99	173	89	53	57	83	31
9	28	39	28	19	16	105	165	77	52	51	87	31
10	23	37	28	18	18	113	148	73	96	40	74	27
11	21	36	26	22	21	118	129	66	43	31	74	23
12	26	35	24	23	26	148	122	64	41	26	71	26
13	37	34	23	24	30	154	113	57	56	28	60	71
14	31	33	25	22	27	130	106	54	93	28	51	51
15	28	35	28	19	24	108	98	58	84	26	44	75
16	28	37	29	16	21	100	92	44	65	44	51	78
17	28	38	31	17	20	89	83	52	49	40	34	79
18	28	39	31	19	19	105	78	59	42	57	28	102
19	34	39	31	18	19	100	89	52	36	64	28	91
20	39	38	30	17	19	107	126	50	35	37	28	76
21	40	37	27	16	20	118	134	50	29	31	28	63
22	40	36	27	17	22	141	125	60	23	37	23	52
23	39	35	26	18	50	146	113	48	33	31	23	45
24	37	33	24	19	104	131	103	44	26	47	26	93
25	39	31	23	20	90	117	96	38	26	51	26	61
26	49	35	22	20	71	106	94	38	23	37	28	59
27	51	43	21	20	64	98	87	40	20	34	23	49
28	59	36	22	19	52	177	102	40	27	28	34	49
29	64	40	24	18	---	466	115	34	33	28	60	46
30	60	35	23	17	---	375	108	71	110	28	31	51
31	51	---	20	16	---	299	---	58	---	23	28	---
TOTAL	1200	1119	819	589	850	4303	4156	2014	1433	1384	1425	1641
MEAN	38.7	37.3	26.4	19.0	30.4	139	139	65.0	47.8	44.6	46.0	54.7
MAX	91	44	31	24	104	466	262	125	110	95	91	102
MIN	18	31	20	16	12	44	78	34	20	23	18	23
CFSM	.11	.10	.07	.05	.08	.39	.39	.18	.13	.12	.13	.15
IN.	.12	.12	.08	.06	.09	.44	.43	.21	.15	.14	.15	.17

CAL YR 1976 TOTAL 110831 MEAN 303 MAX 2540 MIN 16 CFSM .84 IN 11.45
WTR YR 1977 TOTAL 20933 MEAN 57.4 MAX 466 MIN 12 CFSM .16 IN 2.16

05529500 MCDONALD CREEK NEAR MOUNT PROSPECT, IL

LOCATION.--Lat 42°05'42", long 87°54'46", in NW¼NE¼ sec.26, T.42 N., R.11 E., Cook County, Hydrologic Unit 07120004, on right bank at downstream side of bridge on Camp McDonald Road, 2.5 mi (4.0 km) northeast of Mount Prospect, and at mile 2.00 (3.22 km).

DRAINAGE AREA.--7.93 mi² (20.54 km²).

PERIOD OF RECORD.--August 1952 to current year.

REVISED RECORDS.--WSP 1915: 1958. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 638.12 ft (194.499 m) above mean sea level (Cook County Highway Department bench mark).

REMARKS.--Records fair except those for period of no gage-height record, Dec. 1 to Feb. 23, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--25 years, 5.70 ft³/s (0.161 m³/s), 9.76 in/yr (248 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 664 ft³/s (18.8 m³/s) June 20, 1972, gage height, 7.58 ft (2.310 m); maximum gage height, 8.04 ft (2.451 m) July 13, 1975; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 86 ft³/s (2.44 m³/s) Mar. 29, gage height, 4.06 ft (1.237 m), no peak above base of 160 ft³/s (4.5 m³/s); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.4	.27	.42	.00	5.4	2.5	2.0	1.5	5.9	.00	10
2	.80	1.0	.25	.38	.00	4.9	7.9	1.3	.26	1.2	.00	8.0
3	.70	1.1	.25	.28	.00	6.2	3.3	.62	.35	.62	.00	2.3
4	.32	.99	.26	.23	.00	17	5.5	1.6	.13	.35	6.9	1.5
5	3.8	.96	.27	.18	.00	13	6.7	18	10	.24	11	1.1
6	8.8	.72	.29	.12	.00	8.6	2.7	3.3	3.2	.16	3.0	.75
7	1.2	.36	.32	.08	.00	7.0	3.7	1.7	.67	.10	1.7	.54
8	.57	.08	.33	.06	.10	5.0	5.5	1.1	2.2	.06	12	.45
9	.46	.58	.35	.04	1.0	3.0	3.6	.78	4.5	.04	4.0	.42
10	.15	.92	.39	.00	8.4	1.7	2.6	.66	.90	.00	1.8	.42
11	.02	.91	.39	.00	8.7	.89	1.8	.52	7.1	.00	1.7	.43
12	.00	.89	.32	.00	8.9	6.4	1.3	.48	2.8	.00	2.5	.71
13	.10	.83	.27	.00	8.0	2.4	.97	.38	.83	.00	.88	8.0
14	.18	.74	.27	.00	4.7	.64	.76	.33	.36	.00	.40	5.0
15	.21	.49	.30	.00	6.8	.30	.63	.55	.18	.00	.31	9.5
16	.20	.24	.32	.00	6.2	.14	.53	1.1	.20	.00	1.7	7.5
17	.15	.38	.34	.00	5.8	.07	.45	.50	.30	.52	1.5	6.7
18	.18	.92	.35	.00	5.1	2.1	.39	.28	2.3	4.4	.80	13
19	.26	.85	.36	.00	4.7	1.2	1.4	.23	.48	3.5	.43	3.5
20	.18	.78	.39	.00	4.4	2.8	11	.20	.16	.54	.52	2.0
21	.15	.71	.38	.00	4.7	3.0	9.6	.28	.14	.35	1.9	1.6
22	.18	.52	.37	.00	5.3	4.3	5.6	3.8	.13	.26	1.6	1.2
23	.35	.28	.35	.00	6.4	4.4	2.3	.55	.13	.15	.80	1.0
24	.70	.09	.34	.00	15	1.5	1.5	.80	.13	1.2	1.0	12
25	.62	.12	.32	.00	18	.80	1.1	.42	.13	2.4	.65	3.4
26	.66	.78	.32	.00	16	.59	.86	.18	.09	.89	.38	4.8
27	.70	2.8	.32	.00	13	.70	.68	.13	.02	.44	.35	2.1
28	.75	8.0	.31	.00	9.1	21	8.8	.13	.00	.26	1.1	1.6
29	1.1	7.5	.29	.00	---	47	3.0	.13	.00	.16	8.0	1.2
30	2.2	.29	.30	.00	---	7.8	1.9	.12	16	.11	2.0	1.4
31	5.7	---	.32	.00	---	3.4	---	3.7	---	.04	1.1	---
TOTAL	32.49	36.23	9.90	1.79	160.30	183.23	98.57	45.87	55.19	23.89	70.02	112.12
MEAN	1.05	1.21	.32	.058	5.73	5.91	3.29	1.48	1.84	.77	2.26	3.74
MAX	8.8	8.0	.39	.42	18	47	11	18	16	5.9	12	13
MIN	.00	.08	.25	.00	.00	.07	.39	.12	.00	.00	.00	.42
CFSM	.13	.15	.04	.007	.72	.75	.42	.19	.23	.10	.29	.47
IN.	.15	.17	.05	.01	.75	.86	.46	.22	.26	.11	.33	.53

CAL YR 1976 TOTAL 2132.91 MEAN 5.83 MAX 173 MIN .00 CFSM .74 IN 10.01
WTR YR 1977 TOTAL 829.60 MEAN 2.27 MAX 47 MIN .00 CFSM .29 IN 3.89

05530000 WELLER CREEK AT DES PLAINES, IL

LOCATION.--Lat 42°02'58", long 87°55'05", in NW¼NW¼ sec.18, T.41 N., R.12 E., Cook County, Hydrologic Unit 07120004, on right bank 10 ft (3 m) upstream from bridge on State Highway 58 (Golf Road) in Des Plaines, 2 mi (3 km) west of U.S. Highway 45, and at mile 3.00 (4.83 km).

DRAINAGE AREA.--13.2 mi² (34.2 km²).

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 1915: 1957-60. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 634.02 ft (193.249 m) above mean sea level (Cook County Highway Department bench mark). Prior to Sept. 9, 1968, at site 90 ft (27 m) downstream and at datum 1.00 ft (0.305 m) higher. Sept. 9, 1968, to Sept. 10, 1970, at present site at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair except those for winter periods, which are poor. Prior to Nov. 15, 1958, effluent from Arlington Heights sewage treatment plant entered Weller Creek above station. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--27 years, 10.7 ft³/s (0.303 m³/s), 11.01 in/yr (280 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,590 ft³/s (45.0 m³/s) June 10, 1967, gage height, 15.09 ft (4.599 m), present datum; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 515 ft³/s (14.6 m³/s) June 30, gage height, 6.76 ft (2.060 m), no peak above base of 550 ft³/s (16 m³/s); no flow for part of many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	5.5	1.3	1.2	1.6	.26	.40	3.1	3.4	15	.60	80
2	.43	5.0	1.2	1.3	1.7	.80	21	4.5	2.6	4.1	.26	3.4
3	.48	4.0	1.2	1.4	1.9	.40	1.1	2.8	1.8	3.4	.26	.40
4	.51	3.5	1.2	1.5	2.1	37	13	28	1.5	3.0	49	.16
5	16	3.0	1.3	1.7	1.8	1.5	3.8	24	61	2.6	5.4	.07
6	4.1	2.8	1.3	1.6	1.6	.26	4.1	7.7	5.8	1.8	1.9	.24
7	.80	2.7	1.2	1.6	1.4	.16	1.1	3.4	5.0	1.8	.76	.22
8	.40	3.2	1.1	1.5	1.6	.26	.80	3.0	17	8.2	51	.23
9	.26	2.9	1.4	1.5	1.9	.31	.60	2.6	4.1	1.5	4.7	.19
10	.80	2.6	1.9	1.5	3.5	3.2	.26	2.2	1.8	.40	2.2	.51
11	1.5	2.7	1.5	1.5	8.0	3.9	.16	1.8	40	.26	4.4	2.4
12	1.5	2.8	1.2	1.5	10	24	.26	1.5	1.8	.60	1.6	9.7
13	1.1	2.6	1.1	1.6	12	7.5	.60	.80	4.6	.66	.40	56
14	1.1	2.4	1.4	1.7	1.8	6.6	1.1	.80	6.3	.56	.20	3.4
15	1.1	2.4	1.7	1.5	1.5	5.2	1.1	7.2	4.1	.96	.19	56
16	.60	2.2	1.8	1.2	1.3	2.7	1.1	3.4	4.1	.60	34	4.6
17	.80	3.0	1.3	1.4	1.0	.47	1.1	2.1	6.3	5.0	1.6	12
18	.62	3.4	1.2	1.4	1.0	3.8	1.1	1.9	1.5	24	.59	20
19	1.3	3.7	1.7	1.3	1.5	1.4	20	1.4	.26	1.8	.41	7.7
20	1.5	4.3	1.9	1.3	2.2	3.8	29	1.1	.16	.60	.38	8.2
21	2.2	4.1	1.7	1.2	1.8	2.2	7.7	4.3	.16	1.2	.49	.38
22	3.0	4.0	1.5	1.3	.80	5.7	7.7	1.8	.07	1.4	.54	.36
23	3.8	3.8	1.4	1.5	8.6	1.3	5.4	1.5	.16	.82	.35	3.3
24	4.6	4.5	1.6	1.6	3.9	.48	2.8	1.1	.54	30	1.0	116
25	4.6	18	1.7	1.8	.96	.32	2.4	1.1	.69	1.1	.41	34
26	4.1	30	1.4	1.6	.40	.26	3.2	1.1	.60	.16	5.4	45
27	5.4	25	1.3	1.5	.16	.40	3.8	1.1	.40	.16	2.5	2.0
28	5.4	11	1.2	1.4	.16	60	26	1.1	.59	.26	34	.65
29	7.2	2.4	1.2	1.3	---	52	6.5	1.1	1.1	.08	19	.35
30	14	1.4	1.1	1.4	---	13	3.4	1.1	102	.24	2.1	24
31	7.2	---	1.1	1.5	---	1.8	---	23	---	.26	.71	---
TOTAL	96.80	168.9	43.1	45.3	76.18	240.98	170.58	141.60	279.43	112.52	226.35	491.46
MEAN	3.12	5.63	1.39	1.46	2.72	7.77	5.69	4.57	9.31	3.63	7.30	16.4
MAX	16	30	1.9	1.8	12	60	29	28	102	30	51	116
MIN	.26	1.4	1.1	1.2	.16	.16	.16	.80	.07	.08	.19	.07
CFSM	.24	.43	.11	.11	.21	.59	.43	.35	.71	.28	.55	1.24
IN.	.27	.48	.12	.13	.21	.68	.48	.40	.79	.32	.64	1.38

CAL YR 1976 TOTAL 5130.42 MEAN 14.0 MAX 465 MIN .00 CFSM 1.06 IN 14.46
WTR YR 1977 TOTAL 2093.20 MEAN 5.73 MAX 116 MIN .07 CFSM .43 IN 5.90

05530990 SALT CREEK AT ROLLING MEADOWS, IL

LOCATION.--Lat 42°03'37", long 88°00'59", in SW¼NW¼ sec.8, T.41 N., R.11 E., Cook County, Hydrologic Unit 07120004, on left bank at upstream side of bridge on Algonquin Road in Rolling Meadows, 0.25 mi (0.40 km) downstream from Arlington Heights Branch Salt Creek, and at mile 35.62 (57.31 km).

DRAINAGE AREA.--30.5 mi² (79.0 km²).

PERIOD OF RECORD.--October 1973 to current year. August 1950 to September 1971, October 1971 to September 1972 (annual maximum discharge and gage height only), October 1972 to September 1973 at site 0.9 mi (1.4 km) downstream, published as Salt Creek near Arlington Heights. Records may not be equivalent.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 686.40 ft (209.215 m) above mean sea level (Cook County Highway Department bench mark).

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 910 ft³/s (25.8 m³/s) Apr. 18, 1975, gage height, 10.82 ft (3.298 m); no flow Jan. 12 to Feb. 8, 1977, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 213 ft³/s (6.03 m³/s) June 30, gage height, 6.24 ft (1.902 m), no peak above base of 300 ft³/s (8.5 m³/s); no flow Jan. 12 to Feb. 8, result of freezeup.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	3.5	.54	.57	.00	20	29	12	2.2	21	.77	48
2	13	2.4	.54	.60	.00	18	40	12	.86	6.9	.63	29
3	.82	2.0	.50	.64	.00	17	26	7.1	.79	3.2	.67	13
4	.74	1.7	.51	.66	.00	16	33	11	.59	1.6	16	6.6
5	44	1.3	.54	.46	.00	61	29	50	44	.90	18	4.3
6	95	1.2	.62	.30	.00	35	19	24	11	.54	11	3.3
7	18	1.2	.64	.24	.00	28	15	12	4.6	.36	6.3	2.5
8	1.3	1.4	.66	.20	.00	22	13	9.9	9.9	3.6	38	1.9
9	1.4	1.3	.68	.16	1.0	19	11	6.9	7.7	2.2	18	1.9
10	1.9	1.1	.72	.10	9.0	16	9.2	5.6	4.2	.96	10	2.4
11	1.2	1.2	.82	.04	16	14	8.2	5.4	34	.84	13	1.8
12	.81	1.5	.76	.00	18	13	7.1	5.0	8.5	1.6	11	5.6
13	1.2	1.2	.55	.00	15	37	6.9	4.6	4.6	1.3	5.6	33
14	.81	1.1	.54	.00	13	25	6.2	3.9	2.9	.68	3.7	15
15	.66	1.0	.56	.00	11	18	5.8	6.3	1.7	.42	2.7	36
16	.58	1.4	.65	.00	9.6	12	5.8	6.2	1.6	1.2	11	24
17	.50	1.7	.68	.00	8.9	10	5.6	4.1	1.2	7.0	3.5	24
18	.66	2.2	.71	.00	8.0	20	5.4	2.7	3.0	21	2.0	44
19	.90	3.2	.74	.00	7.8	9.6	25	2.4	1.6	7.4	1.5	22
20	1.2	3.3	.80	.00	8.0	24	47	1.3	.80	3.1	1.4	13
21	1.0	3.0	.74	.00	9.0	26	32	11	.50	1.8	2.0	8.2
22	.82	2.6	.68	.00	17	32	27	5.3	.33	1.1	2.1	5.6
23	.90	2.3	.65	.00	29	28	20	2.0	.46	.57	1.9	4.7
24	1.3	2.3	.61	.00	42	20	15	1.6	.90	6.7	3.6	35
25	1.6	2.4	.59	.00	48	14	11	1.2	1.7	2.4	2.4	18
26	1.3	3.0	.56	.00	51	12	9.6	.80	.41	.97	1.4	32
27	1.1	14	.59	.00	35	13	7.2	.73	.73	.76	1.2	12
28	.94	3.0	.56	.00	28	69	29	.59	.30	.60	9.6	7.2
29	1.1	1.4	.54	.00	---	147	21	.79	.30	.57	17	5.2
30	2.3	.72	.50	.00	---	85	15	.84	50	.61	5.7	11
31	5.4	---	.54	.00	---	44	---	10	---	.75	4.4	---
TOTAL	211.34	69.62	19.35	3.97	384.30	924.6	534.0	227.25	201.37	102.63	226.07	470.2
MEAN	6.82	2.32	.62	.13	13.7	29.8	17.8	7.33	6.71	3.31	7.29	15.7
MAX	95	14	.82	.66	51	147	47	50	50	21	38	48
MIN	.50	.72	.50	.00	.00	9.6	5.4	.59	.30	.36	.63	1.8
CFSM	.22	.08	.02	.004	.45	.98	.58	.24	.22	.11	.24	.52
IN.	.26	.08	.02	.00	.47	1.13	.65	.28	.25	.13	.28	.57

CAL YR 1976 TOTAL 8407.25 MEAN 23.0 MAX 484 MIN .50 CFSM .75 IN 10.25
WTR YR 1977 TOTAL 3374.70 MEAN 9.25 MAX 147 MIN .00 CFSM .30 IN 4.12

05531500 SALT CREEK AT WESTERN SPRINGS, IL

LOCATION.--Lat 41°49'35", long 87°54'00", in NE¼SE¼ sec.31, T.39 N., R.12 E., Cook County, Hydrologic Unit 07120004, on left bank at upstream side of bridge on Wolf Road, in Cook County Forest Preserve, 0.5 mi (0.8 km) north of Western Springs, and at mile 8.84 (14.19 km).

DRAINAGE AREA.--114 mi^2 (295 km^2).

PERIOD OF RECORD.--October 1945 to current year.

REVISED RECORDS.--WSP 1915: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 624.93 ft (190.479 m) above mean sea level. Prior to July 26, 1946, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. Occasional regulation by dam above station. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--32 years, 99.9 ft^3/s (2.829 m^3/s), 11.90 in/yr (302 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,920 ft^3/s (54.4 m^3/s) Mar. 20, 1948, gage height, 8.06 ft (2.457 m); maximum gage height, 8.55 ft (2.606 m) Aug. 28, 1972; minimum discharge, 0.4 ft^3/s (0.011 m^3/s) July 13, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,000 ft^3/s (28.3 m^3/s) June 30, gage height, 6.93 ft (2.112 m), no peak above base of 1,100 ft^3/s (31 m^3/s); minimum daily, 22 ft^3/s (0.62 m^3/s) Jan. 23, Feb. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	41	33	29	24	52	167	83	111	362	55	552
2	39	37	31	31	23	52	163	70	84	164	53	328
3	39	36	29	33	22	51	143	72	76	116	60	175
4	37	35	28	32	22	80	149	72	70	90	117	122
5	52	35	32	31	23	97	148	216	151	79	132	99
6	105	32	31	29	24	61	122	163	129	67	110	85
7	62	27	31	28	25	57	100	120	102	67	90	79
8	50	36	32	28	27	56	84	94	93	65	519	71
9	48	42	32	27	29	48	72	80	91	72	280	66
10	44	44	31	27	31	32	66	73	86	62	206	53
11	44	40	36	26	29	30	61	68	288	58	144	56
12	44	32	35	28	34	65	119	61	172	77	132	69
13	43	32	31	31	44	64	181	61	103	63	109	167
14	39	33	29	30	48	46	157	58	95	57	90	146
15	37	34	30	29	45	41	144	59	80	58	73	272
16	34	33	32	28	40	36	127	70	76	64	83	244
17	32	34	33	25	39	35	107	85	79	66	86	164
18	32	34	33	26	36	66	102	78	122	76	75	198
19	35	32	33	28	38	55	122	70	78	80	68	168
20	36	31	34	27	38	61	282	66	70	67	63	130
21	35	30	32	24	36	67	237	64	68	69	60	109
22	34	30	29	23	35	78	209	80	64	64	61	99
23	35	32	31	22	69	79	159	78	63	56	58	88
24	35	32	32	23	82	56	128	81	69	90	62	161
25	37	32	31	25	68	47	108	83	97	96	59	149
26	39	35	33	26	53	45	97	79	69	64	83	331
27	42	62	31	24	51	46	82	75	66	57	111	267
28	45	31	30	23	52	166	113	86	108	54	88	175
29	33	28	30	25	---	443	110	91	99	78	179	136
30	34	35	28	27	---	315	92	84	478	58	110	119
31	49	---	27	24	---	241	---	206	---	57	89	---
TOTAL	1311	1047	970	839	1087	2668	3951	2726	3337	2553	3505	4878
MEAN	42.3	34.9	31.3	27.1	38.8	86.1	132	87.9	111	82.4	113	163
MAX	105	62	36	33	82	443	282	216	478	362	519	552
MIN	32	27	27	22	22	30	61	58	63	54	53	53
CFSM	.37	.31	.28	.24	.34	.76	1.16	.77	.97	.72	.99	1.43
IN.	.43	.34	.32	.27	.35	.87	1.29	.89	1.09	.83	1.14	1.59

CAL YR 1976 TOTAL 44968 MEAN 123 MAX 1360 MIN 27 CFSM 1.08 IN 14.67
WTR YR 1977 TOTAL 28872 MEAN 79.1 MAX 552 MIN 22 CFSM .69 IN 9.42

05532000 ADDISON CREEK AT BELLWOOD, IL

LOCATION.--Lat 41°52'48", long 87°52'07", in SW¼SE¼ sec.9, T.39 N., R.12 E., Cook County, Hydrologic Unit 07120004, on right bank at downstream side of bridge on Washington Boulevard in Bellwood, 1,050 ft (320 m) upstream from Chicago Great Western Railway bridge and at mile 3.20 (5.15 km).

DRAINAGE AREA.--17.9 mi² (46.4 km²).

PERIOD OF RECORD.--August 1950 to June 1951, October 1951 to current year.

REVISED RECORDS.--WSP 1338: 1952. WSP 1708: 1958, 1959(P). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 617.65 ft (188.260 m) above mean sea level (Cook County Highway Department bench mark). Prior to Oct. 26, 1951, at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--26 years, 13.4 ft³/s (0.379 m³/s), 10.17 in/yr (258 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 706 ft³/s (20.0 m³/s) Sept. 17, 1972, gage height, 7.97 ft (2.429 m); maximum gage height, 9.48 ft (2.890 m) Oct. 11, 1954; no flow Sept. 14, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 359 ft³/s (10.2 m³/s) June 30, gage height, 7.65 ft (2.332 m); minimum daily, 2.6 ft³/s (0.074 m³/s) Nov. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.2	3.1	3.0	3.7	4.0	13	7.6	8.0	48	5.2	142
2	3.1	3.1	3.0	3.1	4.1	3.6	24	7.2	5.5	13	14	54
3	3.0	3.0	3.8	3.1	4.2	9.9	12	8.5	5.0	8.5	28	24
4	2.7	3.1	3.4	3.3	4.4	40	20	13	5.1	6.7	44	14
5	15	3.0	2.8	3.4	4.0	11	17	55	39	6.1	20	8.9
6	31	3.3	2.8	3.7	3.5	6.9	12	18	8.6	6.3	13	7.6
7	5.6	3.4	3.1	3.8	3.3	4.4	11	10	5.9	6.3	10	8.1
8	4.2	3.3	3.1	3.8	3.5	4.6	10	8.2	6.9	18	156	7.9
9	3.6	3.6	3.4	3.7	5.0	5.0	8.8	7.4	8.6	13	26	7.3
10	3.4	3.4	4.6	3.6	9.0	4.8	6.7	7.6	5.3	6.9	36	7.0
11	3.3	3.4	3.6	3.7	13	4.8	6.4	6.9	116	6.0	18	6.2
12	3.4	3.4	2.7	3.9	15	20	9.0	6.6	12	15	15	8.7
13	3.6	3.3	3.1	4.1	12	8.9	7.5	6.2	8.0	9.5	9.6	69
14	3.3	3.3	5.2	4.0	10	5.9	6.7	6.1	6.9	6.4	7.5	21
15	3.3	3.3	4.8	3.8	8.5	7.7	6.4	5.5	6.2	5.9	6.4	100
16	3.3	3.1	4.8	3.5	7.6	8.6	6.1	5.4	6.0	7.5	11	50
17	3.0	2.9	3.0	3.3	6.9	7.7	5.8	5.3	36	9.2	8.2	17
18	2.8	2.9	3.1	3.2	6.6	19	5.6	5.0	48	10	6.0	42
19	3.6	3.0	3.6	3.2	6.4	8.0	18	5.0	7.4	9.2	5.8	16
20	3.4	3.0	7.2	3.2	6.4	12	74	4.0	5.8	6.2	5.8	12
21	3.1	2.9	3.4	3.2	6.6	11	27	9.6	5.6	5.6	6.2	11
22	3.3	2.6	3.3	3.3	7.2	17	18	7.4	5.5	5.3	5.7	9.6
23	3.2	2.8	3.6	3.5	8.5	16	12	4.2	5.0	5.2	5.3	9.2
24	3.3	3.0	4.0	3.7	9.2	11	9.5	4.8	7.4	62	6.0	52
25	3.8	3.0	4.4	3.9	8.0	6.9	8.8	4.6	39	17	5.6	23
26	4.2	4.7	3.6	3.9	6.8	4.8	8.6	4.8	6.2	7.0	36	68
27	3.6	18	3.3	3.6	5.2	4.8	8.2	4.8	5.3	6.1	31	16
28	3.1	3.8	3.2	3.2	4.6	74	25	4.6	60	5.4	44	12
29	3.6	2.8	3.3	3.1	---	95	12	4.4	13	28	45	10
30	5.4	3.6	3.1	3.2	---	27	9.4	4.4	184	6.3	12	17
31	8.8	---	3.0	3.3	---	.7	---	65	---	5.6	9.4	---
TOTAL	153.5	111.2	112.4	108.3	193.2	481.3	418.5	317.1	681.2	371.2	651.7	850.5
MEAN	4.95	3.71	3.63	3.49	6.90	15.5	14.0	10.2	22.7	12.0	21.0	28.4
MAX	31	18	7.2	4.1	15	95	74	65	184	62	156	142
MIN	2.7	2.6	2.7	3.0	3.3	3.6	5.6	4.0	5.0	5.2	5.2	6.2
CFSM	.28	.21	.20	.20	.39	.87	.78	.57	1.27	.67	1.17	1.59
IN.	.32	.23	.23	.23	.40	1.00	.87	.66	1.42	.77	1.35	1.77

CAL YR 1976 TOTAL 5397.1 MEAN 14.7 MAX 346 MIN 2.6 CFSM .82 IN 11.22
WTR YR 1977 TOTAL 4450.1 MEAN 12.2 MAX 184 MIN 2.6 CFSM .68 IN 9.25

05532500 DES PLAINES RIVER AT RIVERSIDE, IL

LOCATION.--Lat 41°49'20", long 87°49'15", in SW¼SW¼ sec.36, T.39 N., R.12 E., Cook County, Hydrologic Unit 07120004, on left bank 400 ft (122 m) downstream from bridge on Barry Point Road in Riverside, 500 ft (152 m) downstream from Hoffman Dam, 4,000 ft (1,219 m) downstream from Salt Creek, and at mile 44.30 (71.28 km).

DRAINAGE AREA.--630 mi² (1,632 km²).

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1174: 1944, 1948. WSP 1308: 1944(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 594.68 ft (181.258 m) above mean sea level. Prior to Nov. 27, 1946, nonrecording gage at bridge 400 ft (122 m) upstream at same datum.

REMARKS.--Records good except those for winter periods, which are poor. Occasional regulation by gates of Hoffman Dam. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--34 years, 431 ft³/s (12.21 m³/s), 9.29 in/yr (236 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,510 ft³/s (184 m³/s) Mar. 20, 1948, gage height, 8.28 ft (2.524 m); maximum gage height, 9.82 ft (2.993 m) Jan. 26, 1969, ice jam; no flow Aug. 22-24, 1962, and part of Sept. 5, 1968, Aug. 31, Oct. 7, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since 1914, 7,450 ft³/s (211 m³/s) Mar. 18, 1919, from information furnished by Metropolitan Sanitary District of Greater Chicago.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,170 ft³/s (61.5 m³/s) June 30, gage height, 5.10 ft (1.554 m); minimum daily, 48 ft³/s (1.36 m³/s) Feb. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	110	80	64	53	122	521	264	280	1270	81	1580
2	78	91	75	68	52	112	609	233	174	343	85	976
3	75	82	70	70	52	124	484	206	140	212	196	355
4	69	80	78	72	50	331	501	225	106	174	308	233
5	157	73	75	68	48	452	524	809	451	164	480	198
6	444	69	76	65	49	298	401	500	351	173	273	156
7	216	59	78	63	50	231	346	318	161	167	225	146
8	128	67	79	63	52	206	315	240	153	211	1360	134
9	102	73	74	62	60	211	286	204	232	250	709	126
10	86	78	87	60	70	225	261	183	148	121	603	115
11	76	79	88	58	80	235	235	165	1020	98	330	90
12	73	78	76	66	90	373	254	157	517	128	323	125
13	79	78	69	68	112	391	347	148	216	132	204	544
14	75	78	72	68	110	288	328	140	174	96	161	485
15	74	73	75	60	102	237	279	140	144	91	127	733
16	74	73	80	58	96	219	278	157	153	108	208	747
17	72	73	79	56	89	205	243	153	174	133	229	353
18	68	75	79	60	84	336	227	153	396	152	153	483
19	76	79	83	64	88	276	261	144	179	209	132	420
20	83	77	105	60	87	272	917	128	144	144	125	297
21	81	78	90	56	85	293	620	188	125	108	124	227
22	81	75	68	52	82	355	505	170	106	102	130	198
23	83	73	81	49	123	387	372	136	90	93	118	195
24	80	74	73	52	273	290	305	121	86	263	126	522
25	85	75	77	56	253	247	267	117	136	326	122	440
26	90	109	76	58	191	220	239	106	86	142	215	1150
27	95	346	69	56	152	209	219	98	66	107	332	565
28	105	146	73	54	136	582	388	102	136	89	202	357
29	95	86	68	52	---	1830	417	106	192	173	509	256
30	86	79	64	50	---	1050	313	98	1200	115	243	243
31	90	---	60	52	---	680	---	487	---	91	163	---
TOTAL	3162	2686	2377	1860	2769	11287	11262	6396	7536	5985	8596	12449
MEAN	102	89.5	76.7	60.0	98.9	364	375	206	251	193	277	415
MAX	444	346	105	72	273	1830	917	809	1200	1270	1360	1580
MIN	68	59	60	49	48	112	219	98	66	89	81	90
CFSM	.16	.14	.12	.10	.16	.58	.60	.33	.40	.31	.44	.66
IN.	.19	.16	.14	.11	.16	.67	.66	.38	.44	.35	.51	.74

CAL YR 1976 TOTAL 189746 MEAN 518 MAX 4530 MIN 59 CFSM .82 IN 11.20
WTR YR 1977 TOTAL 76365 MEAN 209 MAX 1830 MIN 48 CFSM .33 IN 4.51

05533000 FLAG CREEK NEAR WILLOW SPRINGS, IL

LOCATION.--Lat 41°44'20", long 87°53'48", in SE¼NE¼ sec.31, T.38 N., R.12 E., Cook County, Hydrologic Unit 07120004, on left bank at upstream side of bridge on German Church Road, 1.1 mi (1.8 km) northwest of Willow Springs, and at mile 2.25 (3.62 km).

DRAINAGE AREA.--16.5 mi^2 (42.7 km^2).

PERIOD OF RECORD.--July 1951 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 606.36 ft (184.819 m) above mean sea level. Prior to June 17, 1963, water-stage recorder at same site at datum 3.73 ft (1.137 m) higher. June 17, 1963, to June 26, 1964, nonrecording gage at site 0.5 mi (0.8 km) upstream at datum 4.82 ft (1.469 m) higher.

REMARKS.--Records good except those for winter periods, which are poor. Diurnal fluctuation at low flow. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--26 years, 15.5 ft^3/s (0.439 m^3/s), 12.76 in/yr (324 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,680 ft^3/s (75.9 m^3/s) Sept. 14, 1961, gage height, 13.71 ft (4.179 m), present datum; minimum daily, 0.1 ft^3/s (0.003 m^3/s) Dec. 9, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft^3/s (9.9 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
June 30	1445	434	12.3	6.44	1.963	Sept. 1	0945	518	14.7	6.85	2.088
Aug. 8	1100	*560	15.9	*6.89	2.100						

Minimum daily discharge, 4.4 ft^3/s (0.12 m^3/s) Jan. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	5.4	7.5	6.2	4.8	7.3	16	9.9	8.9	38	6.7	270
2	5.0	5.4	7.4	6.6	4.7	7.0	34	11	8.0	12	6.9	112
3	5.0	5.4	8.2	7.4	4.5	9.0	17	9.6	8.0	8.9	6.6	44
4	5.4	5.1	5.4	6.8	4.5	35	38	17	8.0	7.9	24	24
5	11	5.2	4.8	6.2	4.7	14	29	83	24	8.1	25	17
6	21	5.1	5.0	5.6	4.9	9.9	18	28	9.6	7.8	9.5	15
7	6.6	5.0	4.5	5.0	6.0	8.7	19	19	8.3	7.6	7.7	12
8	5.7	5.1	4.7	4.9	6.6	8.7	13	14	8.0	7.4	215	12
9	5.3	5.4	5.0	4.9	8.0	8.9	11	13	7.7	7.0	56	11
10	5.1	5.2	5.2	5.3	6.6	8.9	11	9.9	7.4	6.5	114	9.4
11	5.3	5.3	5.0	6.0	7.0	8.7	8.0	8.9	62	7.0	35	8.8
12	5.7	5.2	5.0	7.5	8.0	17	9.9	9.6	11	8.6	20	11
13	5.6	5.1	5.2	10	9.0	12	11	9.2	9.2	7.4	12	40
14	5.3	5.5	5.4	6.8	9.6	9.4	8.9	8.9	8.3	7.1	9.7	16
15	5.4	5.6	5.2	6.0	9.5	12	8.9	20	8.0	7.1	8.5	119
16	5.2	5.7	5.0	5.6	8.5	8.1	8.9	12	8.3	8.0	13	68
17	5.0	5.6	4.8	5.4	8.0	8.6	8.9	9.9	9.2	8.0	8.6	43
18	5.4	5.8	5.0	5.4	7.6	17	10	9.2	22	11	7.5	91
19	5.7	5.7	5.2	6.4	7.4	11	15	7.4	8.0	7.8	7.2	43
20	5.4	5.5	6.2	5.6	7.5	15	85	7.4	8.0	7.0	6.6	23
21	5.6	5.5	5.4	4.4	7.5	14	50	8.9	7.7	6.7	7.1	16
22	5.3	6.1	5.2	4.5	7.2	17	42	8.9	7.4	6.5	7.1	13
23	5.2	6.1	5.4	4.6	19	14	24	8.6	7.4	5.5	6.7	13
24	5.2	5.8	6.0	4.8	17	11	17	8.0	8.3	5.6	6.7	59
25	5.3	5.7	4.8	5.2	14	9.9	14	9.6	8.3	6.8	6.4	21
26	5.3	5.6	4.5	5.2	8.1	9.3	13	7.7	7.7	6.7	14	29
27	5.3	18	5.2	4.9	8.2	12	11	8.9	8.0	6.9	10	16
28	5.2	5.8	5.2	4.7	8.0	64	20	8.3	8.0	6.8	21	14
29	5.2	5.4	6.2	5.2	---	105	13	8.0	9.2	13	29	13
30	5.5	6.4	5.8	5.3	---	37	11	7.1	152	7.1	9.3	12
31	6.4	---	5.6	5.0	---	21	---	17	---	7.2	8.2	---
TOTAL	189.0	177.7	169.0	177.4	226.4	550.4	595.5	417.9	475.9	269.0	725.0	1195.2
MEAN	6.10	5.92	5.45	5.72	8.09	17.8	19.9	13.5	15.9	8.68	23.4	39.8
MAX	21	18	8.2	10	19	105	85	83	152	38	215	270
MIN	5.0	5.0	4.5	4.4	4.5	7.0	8.0	7.1	7.4	5.5	6.4	8.8
CFSM	.37	.36	.33	.35	.49	1.08	1.21	.82	.96	.53	1.42	2.41
IN.	.43	.40	.38	.40	.51	1.24	1.34	.94	1.07	.61	1.63	2.69

CAL YR 1976 TOTAL 5781.1 MEAN 15.8 MAX 374 MIN 3.3 CFSM .96 IN 13.03
WTR YR 1977 TOTAL 5168.4 MEAN 14.2 MAX 270 MIN 4.4 CFSM .86 IN 11.65

05534000 DES PLAINES RIVER AT ROMEO, IL

LOCATION.--Lat 41°38'26", long 88°03'59", in NE¼NE¼ sec.3, T.36 N., R.10 E., Will County, Hydrologic Unit 07120004, on left downstream side of bridge on 135th Street (Romeoville Road), 0.5 mi (0.8 km) west of Romeo, 0.7 mi (1.1 km) east of Romeoville, and at mile 23.42 (37.68 km).

DRAINAGE AREA.--696 mi² (1,803 km²).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: April 1974 to September 1977 (discontinued).

INSTRUMENTATION.--Water-quality monitor since April 1974.

REMARKS.--Periods of no record due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 35.5°C July 15, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 35.5°C July 15; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.5	14.0	16.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
2	20.5	15.0	18.0	8.5	---	---	0.0	0.0	0.0	0.0	0.0	0.0
3	20.5	17.0	18.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
4	19.5	17.0	18.0	---	3.0	---	0.0	0.0	0.0	0.0	0.0	0.0
5	19.0	13.0	16.0	4.5	3.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
6	14.0	10.5	12.5	4.5	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
7	---	---	---	4.5	---	---	0.0	0.0	0.0	0.0	0.0	0.0
8	13.5	11.0	12.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
9	13.5	10.5	12.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
10	14.5	10.5	12.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
11	14.0	11.0	12.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
12	16.0	12.0	14.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
13	16.0	13.5	14.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
14	14.0	10.5	12.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
15	13.5	10.5	12.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
16	10.5	9.5	10.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
17	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
18	---	7.0	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
19	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
20	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
21	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
22	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
23	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
24	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
25	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
26	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
27	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
28	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
29	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
30	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
31	8.0	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	20.5	7.0	14.0	8.5	3.0	---	0.0	0.0	0.0	0.0	0.0	0.0

05534000 DES PLAINES RIVER AT ROMEO, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	---	---	---	11.5	9.0	10.0	18.0	14.0	16.0
2	0.0	0.0	0.0	---	---	---	13.5	9.5	11.5	17.5	14.5	16.0
3	0.0	0.0	0.0	---	---	---	13.0	10.0	11.5	18.5	13.5	16.0
4	0.0	0.0	0.0	---	---	---	11.0	9.0	10.5	19.0	15.5	17.0
5	0.0	0.0	0.0	---	---	---	9.0	7.0	8.0	21.5	16.5	18.5
6	0.0	0.0	0.0	---	---	---	9.0	6.0	7.5	20.0	18.0	19.0
7	0.0	0.0	0.0	3.0	---	---	11.5	6.5	9.0	19.0	16.0	17.5
8	0.0	0.0	0.0	4.0	---	---	11.5	6.5	9.0	19.5	14.5	16.5
9	0.0	0.0	0.0	6.5	2.5	4.0	12.5	7.0	10.0	18.0	12.0	15.0
10	0.5	0.0	0.0	8.5	3.0	6.0	16.5	9.0	13.0	19.5	12.5	15.5
11	1.0	0.0	0.5	---	---	---	18.5	12.5	15.5	21.5	14.5	17.5
12	1.0	0.5	0.5	13.0	---	---	19.5	14.0	17.0	22.5	16.0	19.0
13	0.5	0.5	0.5	---	8.5	---	17.5	15.0	16.5	24.5	17.5	20.5
14	0.0	0.0	0.0	12.5	---	---	18.5	14.5	16.5	24.5	18.5	21.5
15	0.0	0.0	0.0	13.5	9.5	11.5	20.5	15.0	18.0	24.5	20.0	22.0
16	0.0	0.0	0.0	12.0	8.0	9.5	21.0	16.5	18.5	25.5	20.0	23.0
17	0.0	0.0	0.0	8.5	7.0	7.5	22.0	17.0	19.5	25.5	21.5	23.5
18	0.0	0.0	0.0	7.0	6.0	6.5	22.0	18.0	20.0	28.0	21.5	24.5
19	0.0	0.0	0.0	6.5	4.5	5.5	20.5	19.0	19.5	29.0	23.0	25.5
20	0.0	0.0	0.0	7.5	3.5	5.5	20.5	18.0	19.5	---	---	---
21	0.0	0.0	0.0	5.5	3.5	5.0	19.0	17.5	18.0	---	---	---
22	---	---	---	8.0	2.5	5.0	17.5	14.5	15.5	---	---	---
23	---	---	---	8.5	4.5	6.5	17.0	14.0	15.5	---	---	---
24	---	---	---	9.0	5.0	6.5	16.5	13.5	15.0	---	---	---
25	---	---	---	10.5	4.5	7.5	15.5	12.5	14.0	---	---	---
26	---	---	---	11.5	6.5	9.0	18.0	12.0	15.0	---	---	---
27	---	---	---	9.5	8.5	9.0	19.5	13.5	16.5	---	---	---
28	---	---	---	11.5	9.0	10.0	16.0	12.0	13.5	---	---	---
29	---	---	---	12.5	10.5	11.5	16.5	11.0	13.5	---	---	---
30	---	---	---	12.5	10.5	11.5	15.5	12.5	14.5	---	---	---
31	---	---	---	10.5	9.5	10.0	---	---	---	---	---	---
MONTH	1.0	0.0	0.0	13.5	2.5	8.0	22.0	6.0	14.5	29.0	12.0	19.0
		JUNF			JULY			AUGUST			SEPTEMBER	
1	---	---	---	22.0	20.5	21.5	28.5	21.5	25.0	25.0	23.0	24.0
2	---	---	---	23.0	20.5	22.0	25.5	22.5	24.0	23.0	22.0	22.5
3	---	---	---	25.0	21.0	23.0	29.5	22.5	26.0	23.5	21.5	22.5
4	---	---	---	30.5	23.5	27.0	26.5	23.5	25.0	25.0	21.5	23.0
5	---	---	---	32.5	26.5	29.5	24.5	22.5	24.0	25.0	22.5	23.5
6	---	---	---	34.0	27.0	30.5	24.0	23.0	23.5	25.0	20.0	22.5
7	---	---	---	33.0	28.0	30.0	26.5	21.5	24.0	24.5	21.0	22.5
8	---	---	---	28.5	26.0	27.5	25.5	22.0	23.5	25.0	19.5	22.0
9	22.5	15.0	18.5	29.0	24.0	26.0	23.5	21.5	22.5	23.5	20.0	21.5
10	21.0	17.0	19.0	29.0	22.5	25.5	25.5	21.5	23.5	22.5	17.0	20.0
11	23.0	17.5	20.0	28.0	24.5	26.0	24.0	22.0	23.0	23.0	17.0	20.0
12	21.0	17.5	18.5	32.0	25.0	28.0	25.0	20.0	22.5	20.0	17.5	18.0
13	19.5	16.5	18.0	33.0	25.5	29.0	25.5	21.0	23.5	17.5	17.0	17.5
14	23.0	16.5	19.5	34.5	27.0	30.5	27.0	22.5	24.5	19.0	16.0	17.5
15	25.5	18.0	22.0	35.5	28.5	32.0	27.0	21.5	24.5	17.5	16.0	16.5
16	27.5	21.0	24.0	30.0	26.0	27.5	26.5	24.0	25.0	17.0	16.5	16.5
17	28.0	23.0	25.5	30.5	24.5	27.5	26.5	21.5	24.0	18.5	16.5	17.5
18	27.0	23.0	25.0	28.5	25.0	26.5	25.5	20.5	23.0	20.5	18.0	19.0
19	27.5	22.5	25.0	33.0	24.5	28.5	22.5	20.5	21.5	20.0	18.5	19.5
20	28.0	22.5	25.0	33.5	27.5	30.5	22.5	19.0	21.0	18.5	17.0	18.0
21	28.5	21.5	24.5	31.0	26.0	29.0	23.0	20.5	21.5	18.0	15.5	17.0
22	27.0	22.5	24.5	31.0	23.5	27.0	25.5	19.5	22.5	17.5	15.5	16.5
23	25.5	22.0	24.0	31.0	23.5	27.0	23.5	21.0	22.5	17.5	15.5	16.5
24	29.5	23.0	26.0	27.5	25.5	26.5	24.5	18.5	21.5	20.0	17.0	18.0
25	31.0	24.5	27.5	27.5	24.5	26.0	24.0	18.0	21.0	18.0	16.0	17.0
26	31.0	23.5	27.0	27.0	22.5	24.5	24.5	20.0	22.0	18.0	16.5	17.5
27	30.0	25.0	27.5	28.0	21.0	24.0	28.0	23.0	25.0	17.5	16.5	17.0
28	29.0	25.0	27.0	27.5	22.0	24.5	26.0	23.5	24.5	18.0	15.5	16.5
29	29.5	21.5	25.0	29.5	23.0	26.0	26.5	22.5	24.5	18.0	15.5	16.5
30	25.0	21.5	22.5	30.0	24.0	27.0	26.0	22.5	24.5	18.0	16.0	17.0
31	---	---	---	29.0	24.0	26.5	27.5	23.0	25.0	---	---	---
MONTH	31.0	15.0	23.5	35.5	20.5	27.0	29.5	18.0	23.5	25.0	15.5	19.0
YEAR	35.5	0.0	13.5									

05534500 NORTH BRANCH CHICAGO RIVER AT DEERFIELD, IL

LOCATION.--Lat 42°09'10", long 87°49'07", in SW¼SE¼ sec.34, T.43 N., R.12 E., Lake County, Hydrologic Unit 07120003, on right bank at upstream side of bridge on Lake-Cook Road, 1.7 mi (2.7 km) southeast of Deerfield, 5.7 mi (9.2 km) upstream from Skokie River, and at mile 28.60 (46.02 km).

DRAINAGE AREA.--19.7 mi² (51.0 km²).

PERIOD OF RECORD.--August 1952 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 638.88 ft (194.731 m) above mean sea level (Cook County Highway Department bench mark).

REMARKS.--Records poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--25 years, 13.6 ft³/s (0.385 m³/s), 9.38 in/yr (238 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 550 ft³/s (15.6 m³/s) Mar. 5, 1976, gage height, 9.72 ft (2.963 m); maximum gage height, 10.34 ft (3.152 m) June 20, 1972; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 58 ft³/s (1.64 m³/s) Mar. 29, gage height, 5.96 ft (1.817 m), no peak above base of 150 ft³/s (4.2 m³/s); minimum, 0.12 ft³/s (0.003 m³/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	6.8	.75	.25	.24	4.3	10	6.2	4.4	7.3	.55	10
2	.76	4.6	.55	.27	.29	4.3	11	5.8	2.7	5.9	1.1	6.1
3	.56	2.9	.40	.30	.27	7.0	9.8	5.4	1.1	4.7	1.9	2.8
4	.40	4.2	.50	.28	.25	12	13	6.9	.76	4.4	11	2.5
5	6.3	5.4	.70	.25	.23	18	12	9.8	3.9	3.5	13	4.4
6	7.8	3.5	.85	.27	.25	15	8.8	8.3	1.6	3.2	7.4	3.1
7	4.4	4.9	.90	.25	.24	13	7.2	7.6	2.8	3.0	3.8	2.0
8	1.9	2.5	.70	.24	.70	9.9	5.6	7.4	4.4	4.9	15	2.2
9	1.6	4.8	.80	.23	1.2	9.5	4.2	6.6	2.2	4.7	6.0	1.8
10	1.1	1.9	1.2	.24	2.0	8.5	4.0	6.4	1.1	2.8	4.3	1.4
11	.27	1.3	1.1	.23	8.0	9.0	4.7	2.8	10	4.3	4.8	1.3
12	.66	1.3	1.0	.25	15	14	4.3	1.8	2.3	2.4	4.2	2.3
13	.54	1.5	.85	.26	12	10	4.0	1.7	1.5	1.6	3.6	8.8
14	.44	1.4	.70	.28	5.5	8.4	4.7	1.6	3.6	1.4	3.2	4.9
15	.37	1.9	.75	.27	4.0	8.0	4.3	1.3	1.0	1.1	2.9	9.0
16	.35	1.9	.80	.25	4.5	7.8	4.2	.91	.94	1.2	3.8	6.0
17	.40	1.6	.80	.24	2.7	7.6	4.1	2.4	1.7	3.8	2.7	8.1
18	.51	1.7	.70	.23	2.5	10	5.2	1.9	4.6	9.1	2.0	8.7
19	1.4	2.0	.60	.24	2.3	9.1	6.8	3.9	4.1	5.6	1.7	5.4
20	1.2	2.0	.80	.25	2.2	12	11	2.6	3.8	4.9	1.4	4.7
21	1.2	2.3	.70	.24	2.8	13	9.2	2.0	8.5	5.3	1.6	4.1
22	1.3	2.5	.60	.23	2.2	15	8.0	6.0	7.4	4.2	1.9	3.6
23	2.5	3.2	.55	.22	5.4	14	6.3	4.3	5.2	2.7	2.2	3.3
24	2.3	2.8	.50	.22	22	14	5.2	2.7	3.8	5.9	2.5	10
25	2.7	2.3	.55	.23	24	12	5.0	1.9	1.4	4.9	2.1	7.5
26	5.1	2.7	.55	.23	12	11	5.7	2.2	2.1	3.1	2.3	6.7
27	3.8	4.6	.50	.24	6.1	11	7.2	4.9	1.3	2.8	1.9	4.7
28	2.8	7.2	.45	.26	4.8	22	11	5.2	1.6	1.7	3.4	4.1
29	1.7	5.6	.40	.25	---	37	9.2	6.2	2.1	2.0	8.8	3.8
30	1.9	1.2	.35	.24	---	17	7.4	5.2	11	2.0	4.4	5.5
31	9.3	---	.30	.22	---	12	---	9.6	---	1.2	3.3	---
TOTAL	66.26	92.5	20.90	7.66	143.67	375.4	213.1	141.51	102.90	115.6	128.75	148.8
MEAN	2.14	3.08	.67	.25	5.13	12.1	7.10	4.56	3.43	3.73	4.15	4.96
MAX	9.3	7.2	1.2	.30	24	37	13	9.8	11	9.1	15	10
MIN	.27	1.2	.30	.22	.23	4.3	4.0	.91	.76	1.1	.55	1.3
CFSM	.11	.16	.03	.01	.26	.61	.36	.23	.17	.19	.21	.25
IN.	.13	.17	.04	.01	.27	.71	.40	.27	.19	.22	.24	.28

CAL YR 1976 TOTAL 4996.75 MEAN 13.7 MAX 400 MIN .00 CFSM .70 IN 9.44
WTR YR 1977 TOTAL 1557.05 MEAN 4.27 MAX 37 MIN .22 CFSM .22 IN 2.94

05535000 SKOKIE RIVER AT LAKE FOREST, IL

LOCATION.--Lat 42°13'57", long 87°50'41", in NW¼SW¼ sec.4, T.43 N., R.12 E., Lake County, Hydrologic Unit 07120003, on left bank at downstream side of bridge on State Highway 60 at Lake Forest, and at mile 13.17 (21.19 km).

DRAINAGE AREA.--13.0 mi^2 (33.7 km^2).

PERIOD OF RECORD.--October 1951 to current year. Prior to October 1952, records published with those for streams in the St. Lawrence River basin (WSP 1237).

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 648.75 ft (197.739 m) above mean sea level.

REMARKS.--Records good except those for winter periods and those for period of no gage-height record, Dec. 29 to Feb. 22, which are poor. Diurnal fluctuation at low flow. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--26 years, 11.8 ft^3/s (0.334 m^3/s), 12.33 in/yr (313 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 367 ft^3/s (10.4 m^3/s) Aug. 23, 1972, gage height, 6.79 ft (2.070 m); maximum gage height, 7.36 ft (2.243 m) June 20, 1972; no flow for many days in 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 70 ft^3/s (1.98 m^3/s) Mar. 29, gage height, 3.32 ft (1.012 m), no peak above base of 120 ft^3/s (3.4 m^3/s); maximum gage height, 4.30 ft (1.311 m) Feb. 24; minimum daily discharge, 0.66 ft^3/s (0.019 m^3/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	2.4	1.4	1.6	1.3	3.1	13	5.5	7.0	7.3	.91	5.8
2	2.2	2.8	1.5	3.5	1.3	3.0	14	5.3	3.8	2.7	2.0	3.4
3	1.3	2.8	1.4	3.3	1.2	3.5	9.5	4.6	3.2	1.6	2.2	1.5
4	2.6	2.8	1.5	3.0	1.2	4.8	12	4.7	4.0	1.2	13	1.7
5	11	3.1	1.5	2.5	1.2	13	12	12	14	1.5	15	6.3
6	9.8	2.7	1.7	2.2	1.3	4.9	7.9	5.7	15	2.0	6.9	1.8
7	3.4	1.6	1.6	1.9	1.4	4.9	5.6	3.5	3.6	1.9	3.6	1.9
8	3.1	1.7	1.5	1.8	1.5	5.5	4.3	2.5	8.4	2.8	15	2.1
9	2.4	3.1	1.6	1.7	1.7	6.4	3.6	2.6	7.2	3.2	9.7	2.0
10	1.4	2.8	2.2	1.5	3.0	5.6	3.0	4.2	3.4	.96	8.1	1.3
11	1.7	2.8	1.7	1.4	8.0	5.8	3.1	4.0	20	1.5	8.2	.66
12	3.2	2.8	1.6	1.4	21	8.8	3.3	3.8	6.4	3.1	5.8	2.8
13	3.4	2.4	1.5	1.5	18	6.0	3.0	3.9	4.3	2.2	3.7	8.5
14	3.2	1.5	1.4	1.6	14	5.3	3.0	3.2	3.6	2.0	1.8	3.3
15	3.8	2.2	1.5	1.5	7.0	5.7	3.1	2.6	3.4	4.9	1.9	13
16	2.7	4.6	1.6	1.4	3.5	5.0	2.8	4.1	3.1	5.8	3.9	9.5
17	1.9	3.0	1.8	1.4	2.7	4.9	2.7	9.1	6.8	1.9	2.6	6.0
18	1.5	3.1	1.6	1.3	2.4	9.0	2.8	5.2	24	14	2.2	16
19	4.1	3.0	1.5	1.4	2.1	6.2	5.6	3.9	6.8	4.2	2.0	6.8
20	3.4	2.5	1.6	1.5	1.9	9.3	11	4.3	5.2	2.4	1.3	5.5
21	3.0	1.6	1.7	1.4	1.9	9.5	7.7	19	4.6	5.8	.73	4.4
22	3.0	2.1	1.6	1.3	2.0	12	6.2	21	4.3	2.7	1.4	3.8
23	2.4	2.7	1.5	1.2	10	11	4.5	13	3.8	1.5	2.0	3.7
24	1.5	2.7	1.5	1.1	37	8.4	3.6	7.9	3.8	5.2	2.4	8.0
25	2.2	2.1	1.4	1.2	23	7.2	3.8	6.0	3.4	2.1	2.4	2.9
26	3.4	1.3	1.4	1.3	12	6.0	4.5	4.1	2.4	1.7	2.5	2.6
27	3.0	6.0	1.4	1.3	5.0	5.2	5.6	3.4	2.4	1.6	1.8	3.6
28	2.5	3.0	1.3	1.4	3.3	22	30	3.0	2.8	1.5	4.2	3.4
29	2.5	1.3	1.3	1.5	---	42	16	2.7	2.5	1.6	7.9	3.0
30	3.1	1.2	1.2	1.4	---	20	11	3.3	24	1.2	3.2	4.1
31	4.3	---	1.4	1.3	---	15	---	21	---	.71	2.2	---
TOTAL	100.1	77.7	47.4	51.8	189.9	279.0	218.2	199.1	207.2	92.77	140.54	139.36
MEAN	3.23	2.59	1.53	1.67	6.78	9.00	7.27	6.42	6.91	2.99	4.53	4.65
MAX	11	6.0	2.2	3.5	37	42	30	21	24	14	15	16
MIN	1.3	1.2	1.2	1.1	1.2	3.0	2.7	2.5	2.4	.71	.73	.66
CFSM	.25	.20	.12	.13	.52	.69	.56	.49	.53	.23	.35	.36
IN.	.29	.22	.14	.15	.54	.80	.62	.57	.59	.27	.40	.40

CAL YR 1976 TOTAL 3699.18 MEAN 10.1 MAX 238 MIN .78 CFSM .78 IN 10.59
WTR YR 1977 TOTAL 1743.07 MEAN 4.78 MAX 42 MIN .66 CFSM .37 IN 4.99

05535070 SKOKIE RIVER NEAR HIGHLAND PARK, IL

LOCATION.--Lat 42°09'34", long 87°47'52", in NW¼SE¼ sec.35, T.43 N., R.12 E., Lake County, Hydrologic Unit 07120003, on right bank at downstream side of bridge on Clavey Road in Highland Park, and at mile 7.30 (11.75 km).

DRAINAGE AREA.--21.1 mi² (54.6 km²).

PERIOD OF RECORD.--August 1967 to current year.

REVISED RECORDS.--WSP 2115: 1968. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 622.83 ft (189.839 m) above mean sea level (city of Highland Park bench mark).

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--10 years, 22.6 ft³/s (0.640 m³/s), 14.55 in/yr (370 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 570 ft³/s (16.1 m³/s) Aug. 26, 1972, gage height, 8.10 ft (2.469 m); minimum daily, 1.3 ft³/s (0.037 m³/s) Sept. 12, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1938 reached a stage of 10.6 ft (3.23 m), discharge not determined, from information furnished by Highland Park City Engineer.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 164 ft³/s (4.64 m³/s) Mar. 29, gage height, 5.37 ft (1.637 m), no peak above base of 250 ft³/s (7.1 m³/s); minimum daily, 1.4 ft³/s (0.040 m³/s) July 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	4.0	2.2	2.7	2.1	5.4	19	9.2	6.4	9.0	1.6	19
2	4.5	4.4	2.5	6.0	2.1	5.8	25	9.1	4.3	3.1	2.6	7.0
3	3.2	4.0	2.4	5.4	2.0	7.0	14	6.8	3.7	1.9	3.1	4.1
4	3.3	3.5	2.3	4.9	1.9	52	18	15	3.5	1.8	26	3.0
5	16	5.0	2.4	4.4	2.1	63	15	12	13	1.4	18	8.7
6	16	4.6	2.6	3.9	2.1	33	9.8	7.8	9.7	2.3	11	3.9
7	3.5	2.7	2.8	3.5	2.3	20	8.1	6.5	5.0	2.4	4.7	4.1
8	2.9	3.2	2.5	3.1	2.5	20	6.6	5.0	12	8.5	25	4.3
9	2.8	5.4	2.5	2.8	2.7	20	5.3	5.2	8.2	4.0	13	3.7
10	2.0	4.8	3.6	2.6	6.6	15	4.6	5.8	5.2	1.8	9.7	2.9
11	2.3	4.4	3.0	2.4	14	12	4.3	5.2	52	1.5	15	1.8
12	3.3	3.6	2.6	2.3	36	23	4.8	5.2	10	2.6	11	4.6
13	2.3	3.2	2.5	2.4	29	13	4.4	5.2	7.2	2.6	7.0	20
14	3.2	2.8	2.3	2.8	15	9.2	5.2	4.4	6.3	2.2	4.9	6.5
15	5.6	3.6	2.4	2.6	11	8.6	4.4	4.2	5.8	2.4	3.6	30
16	3.8	6.0	2.5	2.4	4.6	7.8	4.2	4.6	5.7	6.4	11	14
17	2.8	6.3	3.0	2.1	3.7	7.3	3.9	9.5	10	3.9	5.1	22
18	2.6	5.2	2.7	2.2	3.5	16	3.4	5.6	28	17	4.2	30
19	4.8	5.0	2.5	2.3	3.2	12	11	4.2	7.7	6.2	4.0	11
20	4.6	2.8	2.6	2.5	2.9	17	15	3.8	5.3	2.9	3.6	7.9
21	4.4	2.7	2.7	2.4	2.8	16	13	5.4	5.4	6.8	2.9	6.6
22	4.2	3.8	2.8	2.2	6.0	22	11	19	5.2	4.4	2.2	5.1
23	4.2	4.6	2.6	2.1	14	19	7.5	9.2	4.7	2.5	3.4	4.1
24	3.0	4.2	2.5	2.0	50	14	5.4	6.7	4.3	5.4	3.4	27
25	4.4	3.3	2.4	1.9	31	11	5.3	5.2	3.8	4.5	3.2	6.4
26	4.0	2.6	2.4	2.1	18	10	6.4	4.3	2.9	2.6	4.8	4.8
27	3.5	12	2.3	2.3	9.8	11	5.7	4.0	2.8	2.5	3.8	4.3
28	3.2	4.4	2.3	2.4	6.2	51	42	3.5	3.5	2.5	11	4.2
29	3.2	2.8	2.2	2.6	---	102	19	2.5	3.3	4.2	17	3.8
30	7.3	2.1	2.1	2.3	---	36	13	2.0	37	2.5	5.3	9.4
31	6.5	---	2.3	2.1	---	22	---	11	---	1.8	3.7	---
TOTAL	142.1	127.0	78.5	87.7	287.1	681.1	314.3	207.1	281.9	123.6	244.8	284.2
MEAN	4.58	4.23	2.53	2.83	10.3	22.0	10.5	6.68	9.40	3.99	7.90	9.47
MAX	16	12	3.6	6.0	50	102	42	19	52	17	26	30
MIN	2.0	2.1	2.1	1.9	1.9	5.4	3.4	2.0	2.8	1.4	1.6	1.8
CFSM	.22	.20	.12	.13	.49	1.04	.50	.32	.45	.19	.37	.45
IN.	.25	.22	.14	.15	.51	1.20	.55	.37	.50	.22	.43	.50

CAL YR 1976 TOTAL 7123.5 MEAN 19.5 MAX 408 MIN 2.0 CFSM .92 IN 12.56
WTR YR 1977 TOTAL 2859.4 MEAN 7.83 MAX 102 MIN 1.4 CFSM .37 IN 5.04

05535500 WEST FORK OF NORTH BRANCH CHICAGO RIVER AT NORTHBROOK, IL

LOCATION.--Lat 42°08'18", long 87°50'04", in SW¼SE¼ sec.4, T.42 N., R.12 E., Cook County, Hydrologic Unit 07120003, on left bank at upstream side of bridge on State Highway 68 at Northbrook, and at mile 7.93 (12.76 km).

DRAINAGE AREA.--11.5 mi² (29.8 km²).

PERIOD OF RECORD.--August 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 637.98 ft (194.456 m) above mean sea level (Cook County Highway Department bench mark).

REMARKS.--Records good except those for winter periods, which are poor. Diurnal fluctuation at low flow. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--25 years, 11.6 ft³/s (0.329 m³/s), 13.70 in/yr (348 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 930 ft³/s (26.3 m³/s) July 13, 1957, gage height, 9.65 ft (2.941 m); no flow at times in several years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 175 ft³/s (4.96 m³/s) June 30, gage height, 3.90 ft (1.189 m), no peak above base of 250 ft³/s (7.1 m³/s); minimum daily, 1.5 ft³/s (0.042 m³/s) Jan. 24, Feb. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.6	3.1	3.1	1.7	4.1	7.6	4.4	3.8	5.1	3.2	34
2	3.2	3.3	2.9	5.6	1.6	4.1	15	4.4	3.2	3.2	4.6	6.3
3	3.2	3.3	2.9	5.0	1.5	4.8	7.3	4.1	3.2	3.2	3.8	4.0
4	3.6	3.2	2.9	4.5	1.5	5.8	13	6.2	12	3.2	30	4.3
5	14	3.2	2.8	3.3	1.6	36	8.6	15	6.1	3.2	13	5.1
6	9.5	2.8	3.1	2.7	1.7	11	6.4	5.3	3.8	3.3	8.1	4.3
7	4.2	2.6	2.9	2.4	1.8	7.6	5.9	4.2	3.1	3.2	4.4	5.1
8	3.3	3.1	3.1	2.2	1.9	6.8	5.3	3.9	17	6.8	29	5.6
9	3.3	3.5	3.1	2.1	2.1	6.9	4.9	3.8	8.0	3.5	10	5.2
10	3.2	3.5	3.5	2.0	3.1	7.8	4.9	3.8	3.6	3.4	5.8	5.0
11	3.2	3.3	3.1	1.9	12	7.1	4.9	3.8	35	2.9	13	5.0
12	3.2	3.3	2.8	1.8	31	19	4.8	3.9	11	3.1	5.8	12
13	3.3	3.2	2.8	2.0	26	11	4.8	4.1	4.6	3.2	4.4	31
14	3.5	3.2	2.9	2.1	9.2	8.1	4.8	3.6	3.9	2.9	3.7	6.6
15	3.6	3.3	3.1	2.0	4.8	7.1	4.6	3.9	3.6	2.9	3.7	38
16	3.6	3.3	2.9	1.9	3.8	6.6	4.9	4.1	3.4	3.1	15	9.4
17	3.3	3.6	3.1	1.8	3.5	6.2	4.2	4.8	3.4	4.2	4.3	26
18	3.6	3.6	2.9	1.7	3.0	11	4.4	4.4	6.8	19	4.0	22
19	3.9	3.6	3.1	1.9	2.8	9.8	14	4.0	3.6	4.4	4.0	7.5
20	3.5	3.5	3.2	1.9	2.6	11	16	3.7	3.1	3.5	4.1	5.5
21	3.5	3.3	3.2	1.8	2.7	8.9	11	4.2	3.0	7.6	4.7	4.4
22	3.6	3.6	3.1	1.7	3.4	16	8.9	4.2	3.2	4.1	4.4	4.4
23	3.5	3.8	3.1	1.6	22	10	6.2	4.0	2.9	3.3	4.7	4.5
24	3.3	3.8	2.9	1.5	49	7.3	5.3	4.0	2.8	10	5.3	33
25	3.9	3.3	2.7	1.7	15	6.4	5.3	4.1	2.7	3.8	4.5	6.7
26	3.5	6.2	2.7	1.8	5.7	5.9	4.8	3.9	2.8	3.3	7.6	7.2
27	3.5	9.5	2.7	1.8	4.6	7.1	4.6	3.6	2.8	3.2	5.4	4.4
28	3.5	2.7	2.3	1.7	4.1	52	20	3.6	3.0	3.1	20	4.3
29	3.5	2.7	2.0	1.9	---	62	6.6	4.0	2.9	3.5	16	3.6
30	7.8	2.4	1.8	1.8	---	16	4.9	3.4	38	3.2	5.8	15
31	6.4	---	2.1	1.7	---	9.5	---	8.9	---	3.2	5.5	---
TOTAL	131.7	107.3	88.8	70.9	223.7	392.9	223.9	143.3	206.3	135.6	257.8	329.4
MEAN	4.25	3.58	2.86	2.29	7.99	12.7	7.46	4.62	6.88	4.37	8.32	11.0
MAX	14	9.5	3.5	5.6	49	62	20	15	38	19	30	38
MIN	3.2	2.4	1.8	1.5	1.5	4.1	4.2	3.4	2.7	2.9	3.2	3.6
CFSM	.37	.31	.25	.20	.70	1.10	.65	.40	.60	.38	.72	.96
IN.	.43	.35	.29	.23	.72	1.27	.72	.46	.67	.44	.83	1.07

CAL YR 1976 TOTAL 4494.9 MEAN 12.3 MAX 400 MIN 1.8 CFSM 1.07 IN 14.54
WTR YR 1977 TOTAL 2311.6 MEAN 6.33 MAX 62 MIN 1.5 CFSM .55 IN 7.48

05536000 NORTH BRANCH CHICAGO RIVER AT NILES, IL

LOCATION.--Lat 42°00'44", long 87°47'45", in SW¼SE¼ sec.30, T.41 N., R.13 E., Cook County, Hydrologic Unit 07120003, on right bank at downstream side of bridge on Touhy Avenue in Niles, 3.6 mi (5.8 km) downstream from West Fork of North Branch, 7.9 mi (12.7 km) upstream from North Shore Channel, and at mile 15.60 (25.10 km).

DRAINAGE AREA.--100 mi² (259 km²).

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1952, records published with those for streams in the St. Lawrence River basin (WSP 1207, 1237).

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 601.99 ft (183.487 m) above mean sea level.

REMARKS.--Records good except those for winter periods and those for period of no gage-height record, Jan. 18 to Feb. 22, which are poor. Occasional regulation at low flow. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--27 years, 85.4 ft³/s (2.419 m³/s), 11.60 in/yr (295 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,210 ft³/s (62.6 m³/s) June 11, 1967, gage height, 9.83 ft (2.996 m); minimum daily, 0.1 ft³/s (0.003 m³/s) Sept. 30, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 723 ft³/s (20.5 m³/s) June 11, gage height, 6.32 ft (1.926 m), no peak above base of 900 ft³/s (25 m³/s); minimum daily, 11 ft³/s (0.31 m³/s) Oct. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	23	18	19	17	53	106	58	35	166	29	305
2	19	18	17	20	16	53	137	52	32	59	27	159
3	17	16	16	22	15	46	95	46	30	48	41	66
4	16	16	17	21	15	122	100	56	26	24	220	50
5	52	15	18	20	16	107	99	171	232	24	199	38
6	95	14	18	20	17	59	74	105	53	23	92	36
7	48	13	18	21	18	52	65	60	34	23	60	40
8	35	12	18	20	19	51	52	38	70	59	270	38
9	28	15	18	19	20	53	44	28	61	48	104	35
10	23	16	21	19	22	53	38	25	33	33	66	32
11	18	17	20	19	24	49	34	24	458	27	70	30
12	16	17	18	19	26	91	32	24	134	27	61	51
13	16	17	16	21	29	77	31	23	63	24	46	220
14	15	16	21	20	34	57	30	23	38	24	30	130
15	12	17	20	20	32	50	29	24	29	24	20	215
16	11	17	19	19	28	44	29	26	24	27	59	140
17	15	17	18	18	25	41	29	26	45	40	43	104
18	15	18	19	17	22	74	28	32	56	99	27	174
19	18	19	19	19	20	110	38	38	45	81	22	93
20	18	19	20	18	20	110	157	36	33	57	33	61
21	18	18	21	17	21	99	84	32	26	42	37	40
22	17	19	17	16	27	117	68	30	24	47	19	33
23	16	18	18	15	54	109	57	32	24	45	15	30
24	17	18	17	16	74	83	47	38	27	155	24	217
25	23	17	18	17	62	67	43	36	24	54	21	117
26	21	27	18	18	57	58	37	35	17	37	86	139
27	29	68	17	17	55	54	34	34	21	32	52	34
28	19	27	20	17	54	191	92	36	23	30	78	33
29	16	23	19	19	---	424	82	37	26	29	132	20
30	25	20	18	19	---	216	68	54	322	30	58	50
31	41	---	18	18	---	137	---	146	---	31	44	---
TOTAL	748	587	570	580	839	2907	1859	1425	2065	1469	2085	2730
MEAN	24.1	19.6	18.4	18.7	30.0	93.8	62.0	46.0	68.8	47.4	67.3	91.0
MAX	95	68	21	22	74	424	157	171	458	166	270	305
MIN	11	12	16	15	15	41	28	23	17	23	15	20
CFSM	.24	.20	.18	.19	.30	.94	.62	.46	.69	.47	.67	.91
IN.	.28	.22	.21	.22	.31	1.08	.69	.53	.77	.55	.78	1.02

CAL YR 1976 TOTAL 33214 MEAN 90.7 MAX 1210 MIN 11 CFSM .91 IN 12.36
WTR YR 1977 TOTAL 17864 MEAN 48.9 MAX 458 MIN 11 CFSM .49 IN 6.65

05536135 CHICAGO SANITARY AND SHIP CANAL AT ASHLAND AVE. AT CHICAGO, IL

LOCATION.--Lat 41°50'41", long 87°39'58", in NE¼SE¼ sec.30, T.39 N., R.14 E., Cook County, Hydrologic Unit 07120003, on left downstream side of bridge on Ashland Ave. in Chicago, 0.1 mi (0.2 km) downstream from confluence of South Fork and South Branch Chicago River.

DRAINAGE AREA.--Indeterminate.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1975 to September 1977 (discontinued).

INSTRUMENTATION.--Water-quality monitor since June 1975.

REMARKS.--No record Jan. 28 to Feb. 25 due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 30.5°C July 3, Aug. 1, 1975; minimum, 0.0°C Dec. 31, 1976, Jan. 1, 2, 15, 16, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 29.0°C July 6, 14, 15, 20; minimum, 0.0°C on Dec. 31, Jan. 1, 2, 15, 16.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.5	24.0	25.0	14.0	12.0	13.0	6.0	3.5	5.0	1.5	0.0	1.0
2	25.5	22.0	23.5	15.0	13.5	14.0	6.5	3.5	5.5	1.0	0.0	0.0
3	23.0	22.5	22.5	14.0	13.5	14.0	7.5	5.0	6.0	2.0	1.0	1.5
4	25.5	22.0	23.5	14.0	13.0	13.5	7.5	4.0	5.0	2.5	1.0	2.0
5	26.0	22.5	24.5	13.5	13.0	13.0	4.0	3.0	3.5	3.0	2.0	2.5
6	23.5	21.0	22.5	13.5	13.0	13.5	7.0	3.5	5.0	3.0	2.5	3.0
7	24.0	22.5	23.0	13.5	11.0	12.0	6.5	5.0	6.0	2.5	2.0	2.5
8	23.5	22.5	23.0	13.5	10.5	11.5	8.0	5.0	6.5	3.0	1.5	2.0
9	22.5	22.0	22.0	13.5	12.0	13.0	8.0	5.0	6.5	2.5	1.5	1.5
10	22.5	20.5	21.5	13.5	12.0	13.0	8.5	5.0	7.0	2.0	1.5	2.0
11	23.5	22.0	22.5	13.5	11.5	13.0	7.0	3.5	5.5	2.5	1.5	2.0
12	23.0	21.5	22.5	13.0	11.0	12.5	3.5	2.0	2.5	2.0	1.5	1.5
13	24.0	22.5	23.5	13.5	12.0	12.5	3.5	1.5	3.0	2.5	1.5	2.0
14	24.0	23.0	23.5	12.0	10.0	11.0	4.0	2.5	3.5	2.5	1.5	2.0
15	23.5	22.0	23.0	11.0	10.0	10.5	4.0	3.0	3.0	1.5	0.0	1.0
16	23.5	22.0	22.5	10.5	9.5	10.0	4.0	2.5	3.5	1.0	0.0	1.0
17	22.0	20.0	21.0	12.0	9.0	10.5	6.5	3.0	5.0	1.5	1.0	1.5
18	21.5	19.5	20.5	11.5	10.0	11.0	6.0	5.0	5.0	1.5	0.5	1.0
19	21.5	20.0	20.5	11.5	10.0	10.5	5.0	3.5	4.0	2.0	1.0	1.5
20	21.0	18.5	20.0	10.0	6.0	7.5	6.0	3.5	4.5	2.0	1.5	2.0
21	20.5	18.5	19.5	8.0	6.0	7.0	5.0	3.0	4.0	2.5	2.0	2.5
22	19.0	18.5	18.5	7.5	5.0	6.0	4.0	2.5	3.0	2.5	2.0	2.5
23	19.0	17.5	18.5	7.5	7.0	7.0	3.5	1.5	2.0	2.5	1.5	2.0
24	18.0	16.5	17.0	9.5	6.5	8.0	3.0	1.5	2.0	2.5	1.5	2.0
25	18.5	17.0	18.0	9.5	7.0	7.5	2.5	1.0	2.0	1.5	1.0	1.5
26	18.5	16.0	17.5	8.5	7.5	8.0	3.0	2.0	2.5	2.5	1.0	1.5
27	19.5	17.5	18.0	12.5	7.0	9.0	3.5	2.0	3.0	1.5	0.5	1.0
28	18.0	15.0	16.5	12.0	8.0	10.0	3.0	2.0	2.5	---	---	---
29	18.0	15.5	16.5	8.5	7.5	8.0	3.0	1.5	2.5	---	---	---
30	15.5	13.5	14.5	7.5	5.0	6.5	2.5	0.5	1.5	---	---	---
31	13.5	11.5	12.0	---	---	---	0.5	0.0	0.0	---	---	---
MONTH	26.0	11.5	20.5	15.0	5.0	10.5	8.5	0.0	4.0	3.0	0.0	1.5

05536135 CHICAGO SANITARY AND SHIP CANAL AT ASHLAND AVE. AT CHICAGO, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	4.5	1.5	2.5	10.5	10.0	10.0	15.5	14.5	15.0
2	---	---	---	6.0	3.5	4.5	10.5	10.0	10.5	17.0	14.5	15.5
3	---	---	---	6.5	2.5	3.5	11.5	10.5	11.0	17.0	15.5	16.5
4	---	---	---	6.0	2.5	3.5	11.0	9.0	10.5	17.0	16.0	16.5
5	---	---	---	10.5	5.0	8.0	10.0	8.0	9.0	17.5	14.0	15.5
6	---	---	---	11.5	9.0	10.5	10.0	9.0	9.5	18.0	15.5	16.5
7	---	---	---	10.0	8.5	9.0	9.5	8.5	9.5	19.0	17.5	18.0
8	---	---	---	10.5	8.5	9.5	8.5	7.0	7.5	18.0	16.0	17.0
9	---	---	---	12.0	9.0	10.5	8.5	7.0	8.0	17.5	16.0	16.5
10	---	---	---	13.5	12.0	12.5	12.5	8.5	10.0	17.5	16.0	17.0
11	---	---	---	14.0	12.0	13.5	15.5	12.0	13.5	18.0	16.0	17.0
12	---	---	---	12.0	8.0	9.5	16.0	13.5	14.5	18.0	16.5	17.5
13	---	---	---	10.0	7.5	8.5	17.0	14.5	16.0	20.0	17.5	18.5
14	---	---	---	12.0	10.0	10.5	18.0	14.0	16.5	20.0	18.5	19.5
15	---	---	---	11.0	10.0	10.5	17.0	14.0	15.5	20.0	18.5	19.0
16	---	---	---	10.5	10.0	10.0	17.0	15.5	16.0	22.0	19.0	20.5
17	---	---	---	10.0	8.5	9.5	18.5	16.5	17.5	22.0	20.5	21.0
18	---	---	---	9.5	9.0	9.0	19.0	17.5	18.0	23.0	20.5	21.5
19	---	---	---	9.0	8.5	9.0	19.0	17.5	18.0	25.0	21.5	23.0
20	---	---	---	8.5	8.0	8.0	17.5	15.5	16.5	23.5	22.0	22.5
21	---	---	---	8.0	7.5	8.0	17.5	16.0	17.0	24.0	22.0	23.0
22	---	---	---	8.5	7.5	8.0	17.5	16.0	17.0	25.0	22.5	23.0
23	---	---	---	8.5	8.0	8.0	17.5	16.0	16.5	23.5	22.5	23.0
24	---	---	---	8.0	8.0	8.0	16.0	14.5	15.0	24.0	22.0	23.0
25	---	---	---	8.5	8.0	8.0	16.0	14.5	15.0	24.5	22.5	23.5
26	3.0	2.0	2.5	8.5	8.0	8.0	16.5	14.5	15.5	25.0	23.0	24.0
27	2.0	1.5	1.5	9.5	8.5	8.5	17.0	15.5	16.0	24.0	22.0	23.0
28	1.5	1.0	1.5	11.0	9.0	10.0	16.5	14.5	15.5	24.0	22.0	23.0
29	---	---	---	11.5	11.0	11.0	17.0	15.0	15.5	22.5	19.5	21.0
30	---	---	---	11.0	10.5	10.5	16.0	15.0	15.5	20.0	19.0	19.5
31	---	---	---	10.5	10.5	10.5	---	---	---	22.0	20.0	21.0
MONTH	3.0	1.0	2.0	14.0	1.5	8.5	19.0	7.0	14.0	25.0	14.0	19.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.0	21.5	22.0	24.5	20.5	22.0	25.5	24.0	24.5	23.5	22.0	22.5
2	22.5	20.5	21.5	24.5	21.5	22.5	26.5	24.5	25.5	22.5	22.0	22.5
3	22.5	21.5	22.0	24.0	22.0	23.0	26.5	23.5	25.0	23.0	22.5	22.5
4	23.0	21.5	22.0	27.0	22.5	24.5	27.0	24.0	25.5	22.5	22.0	22.0
5	23.5	20.0	22.0	26.5	22.0	24.0	27.0	25.5	25.5	22.0	21.5	22.0
6	23.5	22.0	23.0	29.0	26.0	27.5	26.0	25.5	25.5	22.0	21.5	22.0
7	23.5	22.0	23.0	28.0	26.0	27.0	26.5	25.5	26.0	22.0	22.0	22.0
8	23.5	20.5	22.0	28.0	25.0	27.0	26.5	22.0	24.5	22.0	22.0	22.0
9	21.5	18.5	19.5	25.0	22.5	23.5	25.5	24.0	24.5	22.0	22.0	22.0
10	18.5	17.5	18.0	25.0	22.5	23.0	26.0	22.5	25.0	22.0	21.5	22.0
11	18.0	16.0	17.0	27.0	25.0	26.0	27.5	24.5	25.0	23.5	21.5	22.0
12	17.0	16.5	17.0	28.0	26.5	27.0	26.5	24.5	25.0	24.5	21.5	23.5
13	19.5	17.0	18.0	28.0	26.5	27.5	26.0	25.0	25.5	22.0	21.0	21.5
14	21.0	17.0	18.5	29.0	26.5	28.0	25.0	24.0	24.5	23.0	21.5	22.0
15	22.0	20.0	21.0	29.0	28.0	28.5	26.5	24.5	25.0	22.0	19.5	21.0
16	22.5	21.5	22.0	27.5	25.5	26.5	26.0	23.5	24.5	22.0	20.5	21.0
17	24.0	22.0	23.0	26.5	24.5	25.0	25.5	23.0	24.5	20.5	18.5	19.0
18	23.5	21.0	22.0	26.0	24.0	25.5	25.5	24.5	25.0	23.5	20.0	22.0
19	23.5	21.5	22.5	28.5	25.5	26.5	25.0	23.0	24.0	24.0	23.0	23.5
20	25.5	22.0	24.0	29.0	26.5	28.0	24.0	21.5	23.0	23.5	22.0	23.0
21	25.5	24.0	24.5	27.0	25.0	25.5	21.5	20.0	20.5	23.0	22.0	22.5
22	25.5	23.0	23.0	26.5	25.0	25.5	21.5	19.5	20.5	23.0	21.0	22.0
23	25.5	24.5	25.0	26.5	25.5	26.0	24.5	20.5	22.0	22.5	21.5	22.0
24	26.5	23.0	26.0	26.0	23.5	25.0	25.5	23.5	24.5	22.5	19.5	21.0
25	26.0	22.5	25.0	26.0	24.0	25.5	25.0	24.0	24.5	21.5	20.5	21.0
26	26.5	24.5	25.0	26.5	25.5	26.0	25.0	23.0	24.5	22.0	19.5	20.5
27	27.0	25.5	26.5	27.0	25.5	26.5	26.5	23.0	25.0	22.5	21.0	22.0
28	27.5	26.0	27.0	27.5	26.0	26.5	26.0	24.0	25.5	23.0	21.0	22.0
29	28.0	26.0	27.0	27.0	25.0	26.0	25.5	23.5	24.5	22.0	19.0	20.0
30	27.5	21.0	23.5	28.0	24.5	26.0	24.5	23.5	24.0	19.0	18.5	18.5
31	---	---	---	27.5	24.0	25.5	24.0	23.0	23.5	---	---	---
MONTH	28.0	16.0	22.5	29.0	20.5	25.5	27.5	19.5	24.5	24.5	18.5	21.5
YEAR	29.0	0.0	16.0									

05536210 THORN CREEK NEAR CHICAGO HEIGHTS, IL

LOCATION.--Lat 41°30'50", long 87°38'07", in SE¼SE¼ sec.17, T.35 N., R.14 E., Cook County, Hydrologic Unit 07120003, on left bank at upstream side of bridge on Halsted Street, at north edge of Chicago Heights, and at mile 10.91 (17.55 km).

DRAINAGE AREA.--17.2 mi² (44.5 km²).

PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WDR IL-74: 1968(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 627.70 ft (191.323 m) above mean sea level (Illinois Department of Transportation bench mark). Oct. 3, 1961, to June 26, 1964, crest-stage gage at downstream side of bridge at datum 4 ft (1.219 m) higher.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--13 years, 14.4 ft³/s (0.408 m³/s), 11.37 in/yr (289 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,220 ft³/s (62.9 m³/s) June 6, 1974, gage height, 8.31 ft (2.533 m); no flow for part of Sept. 11, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (20 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
June 30	1515	878	24.9	4.63	1.411
Sept. 4	2330	771	21.8	4.31	1.314
Sept. 18	0400	*942	26.7	*4.83	1.472

Minimum discharge, 0.10 ft³/s (0.003 m³/s) Nov. 12, 14, June 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	.53	1.0	.34	.78	2.2	9.2	.77	.42	26	.42	173
2	.53	.52	.80	.33	.38	1.6	41	2.6	.32	6.5	.24	28
3	.35	.57	.60	.33	.35	4.5	25	.77	.24	2.6	.24	6.5
4	.37	.51	.36	.36	.50	37	26	37	.32	1.5	3.4	47
5	22	.54	.28	.39	.60	18	18	83	22	1.1	3.4	74
6	34	.42	.38	.39	.45	5.5	10	30	.92	.92	7.5	7.5
7	5.5	.32	.38	.38	.40	3.7	6.5	9.8	.65	.77	.92	3.4
8	2.0	.32	.33	.35	.40	2.8	4.4	5.5	.65	11	37	2.3
9	.92	.58	.29	.36	1.0	3.6	3.4	3.0	.32	9.8	3.4	2.0
10	.65	.42	.39	.40	6.0	3.4	2.6	2.0	.32	1.7	15	.92
11	.65	.42	.40	.39	19	2.6	2.0	1.7	71	.92	2.3	.53
12	.44	.32	.38	.37	32	77	1.5	1.5	4.4	46	.92	4.4
13	.42	.42	.34	.36	14	19	2.0	1.1	1.3	3.9	.65	63
14	.42	.24	.30	.35	6.0	8.6	1.7	1.1	.65	1.7	.32	14
15	.77	.49	.35	.35	5.0	3.9	1.3	.65	.53	.92	.32	104
16	.42	.42	.34	.31	4.0	2.7	1.1	.65	.53	.92	1.7	25
17	2.0	.42	.32	.32	3.0	6.5	.77	.53	7.5	.65	.65	18
18	.77	.56	.31	.37	4.0	26	.77	.65	18	3.9	.53	380
19	.92	.57	.35	.38	4.0	9.2	15	.53	1.5	.77	.42	39
20	.77	.60	.50	.39	2.0	21	27	.92	.77	.42	9.8	16
21	.45	.32	.32	.37	3.0	14	9.8	.65	.42	.32	23	10
22	.40	.52	.35	.36	4.0	28	5.5	.42	.42	.32	6.0	7.0
23	2.6	.42	.37	.33	30	22	3.0	3.4	.53	.42	1.5	5.5
24	1.3	.32	.35	.32	23	15	2.0	1.5	.42	.53	1.7	14
25	.92	.24	.32	.39	14	10	2.6	.53	.65	.42	1.1	6.5
26	1.5	17	.35	.39	7.0	7.0	1.3	.53	.24	.32	.65	8.0
27	4.9	22	.37	.39	4.9	7.5	.92	.53	.32	.32	.65	3.4
28	.77	2.3	.35	.39	3.6	119	3.9	.53	.32	.32	28	3.0
29	.65	1.5	.35	.40	---	137	1.3	.42	.32	1.5	13	2.3
30	13	.92	.36	.74	---	28	.92	.42	238	.53	2.3	2.6
31	5.5	---	.35	.82	---	12	---	.42	---	1.5	1.3	---
TOTAL	106.37	54.73	12.24	12.12	193.36	658.3	230.48	193.12	373.98	128.49	168.33	1070.85
MEAN	3.43	1.82	.39	.39	6.91	21.2	7.68	6.23	12.5	4.14	5.43	35.7
MAX	34	22	1.0	.82	32	137	41	83	238	46	37	380
MIN	.35	.24	.28	.31	.35	1.6	.77	.42	.24	.32	.24	.53
CFSM	.20	.11	.02	.02	.40	1.23	.45	.36	.73	.24	.32	2.08
IN.	.23	.12	.03	.03	.42	1.42	.50	.42	.81	.28	.36	2.32

CAL YR 1976 TOTAL 5812.96 MEAN 15.9 MAX 624 MIN .22 CFSM .92 IN 12.57
WTR YR 1977 TOTAL 3202.37 MEAN 8.77 MAX 380 MIN .24 CFSM .51 IN 6.93

05536215 THORN CREEK AT GLENWOOD, IL

LOCATION.--Lat 41°31'50", long 87°36'20", in SW¼SE¼ sec.9, T.35 N., R.14 E., Cook County, Hydrologic Unit 07120003, on right bank 20 ft (6 m) downstream from Baltimore and Ohio Chicago Terminal Railroad bridge, 0.7 mi (1.1 km) north of Chicago Heights, 0.8 mi (1.3 km) south of Glenwood, 1.0 mi (1.6 km) upstream from Deer Creek, and at mile 9.25 (14.88 km).

DRAINAGE AREA.--24.7 mi² (64.0 km²).

PERIOD OF RECORD.--May 1949 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WSP 1437: 1955. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 610.97 ft (186.224 m) above mean sea level.

REMARKS.--Records fair. Figures of discharge include about 13 ft³/s (0.37 m³/s) pumped from ground-water sources for municipal supply and about 5 ft³/s (0.14 m³/s) of ground-water pumpage for industrial use.

AVERAGE DISCHARGE.--28 years, 35.9 ft³/s (1.017 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft³/s (73.6 m³/s) Aug. 17, 1968, gage height, 11.26 ft (3.432 m); minimum daily, 6.0 ft³/s (0.17 m³/s) July 4, Aug. 21, Sept. 5, 11, 25, 1949.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 750 ft³/s (21 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
June 30	1715	990	28.0	9.22	2.810	Sept. 5	0045	812	23.0	8.66	2.640
Sept. 1	1800	783	22.2	8.51	2.594	Sept. 18	0600	*1180	33.4	*9.69	2.954

Minimum daily discharge, 14 ft³/s (0.40 m³/s) Oct. 3, July 24, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	20	17	16	19	24	31	20	20	49	19	320
2	16	20	17	17	19	24	77	25	20	24	16	87
3	14	20	17	19	20	28	47	22	20	17	16	28
4	16	19	17	19	20	64	56	47	20	18	24	54
5	41	19	16	20	18	42	44	131	52	20	24	170
6	64	18	17	19	18	29	44	62	20	20	30	31
7	27	17	18	19	19	28	40	36	19	18	18	25
8	24	18	17	18	18	27	38	28	19	26	83	22
9	21	18	17	18	19	27	36	25	18	27	25	20
10	18	18	18	19	32	27	34	23	18	16	49	18
11	16	18	17	19	49	27	34	22	141	20	21	15
12	18	18	16	19	69	128	34	22	25	100	18	20
13	18	18	17	18	43	54	25	22	21	23	16	121
14	19	18	17	19	31	42	23	20	20	20	15	38
15	22	19	18	18	29	35	21	18	20	20	16	169
16	20	19	17	18	25	31	20	20	19	18	20	52
17	23	20	17	18	24	36	18	20	24	15	17	42
18	20	19	16	19	25	78	17	20	51	27	16	644
19	20	20	18	19	24	44	34	20	18	19	16	108
20	19	19	21	19	21	64	59	21	19	19	31	56
21	19	18	18	19	22	52	40	20	18	18	60	42
22	19	19	18	18	24	77	33	18	18	18	25	35
23	22	20	18	18	62	62	27	24	18	18	18	31
24	19	19	16	19	56	50	23	22	19	14	20	49
25	19	18	16	19	34	41	27	17	18	18	18	30
26	20	33	16	19	28	34	23	18	16	17	18	38
27	25	47	18	18	25	36	23	21	18	17	16	27
28	20	18	18	18	26	185	29	19	18	17	68	25
29	19	17	18	18	---	210	24	17	18	22	52	23
30	33	16	18	18	---	54	21	18	349	17	24	24
31	25	---	18	20	---	36	---	19	---	14	22	---
TOTAL	692	600	537	574	819	1696	1002	837	1094	706	831	2364
MEAN	22.3	20.0	17.3	18.5	29.3	54.7	33.4	27.0	36.5	22.8	26.8	78.8
MAX	64	47	21	20	69	210	77	131	349	100	83	644
MIN	14	16	16	16	18	24	17	17	16	14	15	15

CAL YR 1976 TOTAL 15350 MEAN 41.9 MAX 821 MIN 14
WTR YR 1977 TOTAL 11752 MEAN 32.2 MAX 644 MIN 14

05536235 DEER CREEK NEAR CHICAGO HEIGHTS, IL

LOCATION.--Lat 41°31'15", long 87°35'25", 0.1 mi (0.2 km) west of center of sec.14, T.35 N., R.14 E., Cook County, Hydrologic Unit 07120003, on left bank at downstream side of bridge on Joe Orr Road, 0.4 mi (0.6 km) east of Cottage Grove Avenue, 1.0 mi (1.6 km) north of U.S. Highway 30, 1.5 mi (2.4 km) northeast of Chicago Heights, and at mile 2.84 (4.57 km).

DRAINAGE AREA.--23.1 mi^2 (59.8 km^2).

PERIOD OF RECORD.--May 1948 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 615.95 ft (187.742 m) above mean sea level. See WSP 1707 or 1727 for history of changes prior to Aug. 13, 1958.

REMARKS.--Records fair except those for winter periods, which are poor. Undetermined amount of flow diverted for irrigation. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--29 years, 16.6 ft^3/s (0.470 m^3/s), 9.80 in/yr (249 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,380 ft^3/s (39.1 m^3/s) July 13, 1957, gage height, 11.75 ft (3.581 m); no flow at times in several years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 425 ft^3/s (12.0 m^3/s) Sept. 18, gage height, 10.04 ft (3.060 m); minimum daily, 0.37 ft^3/s (0.010 m^3/s) July 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	2.3	1.4	1.2	1.1	49	14	3.1	1.9	29	.73	46
2	1.5	2.1	1.4	1.2	1.2	46	20	2.8	1.8	9.8	.57	88
3	1.4	1.8	1.4	1.2	1.1	43	44	2.8	1.7	3.7	.55	18
4	1.3	2.0	1.6	1.3	1.1	60	26	4.2	1.6	2.2	.88	8.3
5	2.6	1.8	1.4	1.3	1.1	86	28	18	3.1	1.7	1.5	21
6	9.0	1.8	1.5	1.2	1.2	57	20	13	5.1	1.4	2.1	11
7	3.7	1.6	1.7	1.2	1.3	44	13	7.2	4.0	1.3	2.7	5.6
8	2.4	1.8	1.4	1.2	1.5	40	10	5.5	2.8	1.3	4.9	3.4
9	2.1	1.7	1.3	1.2	1.8	38	8.0	4.1	2.3	2.5	4.0	2.5
10	1.9	1.4	1.9	1.3	2.2	33	6.9	3.7	2.1	2.0	3.8	1.8
11	1.4	1.4	1.5	1.2	3.0	26	6.1	3.3	5.4	1.3	2.5	1.7
12	1.3	1.8	1.3	1.1	5.0	26	5.4	2.8	7.2	3.0	1.6	1.8
13	1.3	1.9	1.5	1.3	6.6	34	4.7	2.8	3.6	5.6	1.1	25
14	1.3	1.8	2.0	1.1	7.6	16	4.6	2.4	2.4	2.1	.87	29
15	1.3	1.8	3.0	1.0	8.8	11	4.2	2.4	1.8	1.3	.73	69
16	1.1	1.7	2.0	1.0	2.5	8.0	3.9	2.7	1.5	1.1	.76	52
17	2.0	1.4	1.4	1.0	2.3	6.5	3.6	2.7	1.6	1.1	.88	20
18	1.9	1.5	1.2	1.0	2.2	9.8	3.3	2.8	2.5	1.0	.93	307
19	1.9	1.5	1.5	1.0	2.1	16	3.1	2.7	2.4	1.1	.83	175
20	2.0	1.4	1.8	1.0	2.1	14	3.8	2.5	1.8	1.1	.77	70
21	1.9	1.2	1.4	1.0	1.9	20	3.9	2.3	1.4	.95	5.4	38
22	1.9	1.3	1.2	1.0	1.9	29	3.8	2.5	1.1	.89	2.9	25
23	2.0	1.9	.90	1.0	1.9	36	3.7	2.6	1.1	.74	1.8	19
24	1.8	1.9	1.0	1.0	13	26	3.1	3.0	1.1	.59	1.2	24
25	1.9	1.4	1.4	1.2	120	16	3.0	2.4	1.2	.64	1.0	19
26	1.8	1.9	1.3	1.4	78	10	3.0	2.2	1.1	.47	.95	15
27	2.0	4.4	1.1	1.2	71	8.4	2.9	2.1	1.0	.37	.88	9.3
28	1.8	3.3	1.0	1.1	57	27	3.0	2.1	1.0	.49	3.5	6.3
29	1.7	2.0	.90	1.0	---	124	3.4	2.1	1.0	.55	7.1	4.8
30	2.0	1.5	1.0	1.0	---	60	3.4	2.1	13	.64	3.1	3.9
31	2.3	---	1.4	1.0	---	25	---	2.1	---	.75	1.7	---
TOTAL	64.0	55.3	44.80	34.9	400.5	1044.7	265.8	117.0	79.6	80.68	62.23	1100.4
MEAN	2.06	1.84	1.45	1.13	14.3	33.7	8.86	3.77	2.65	2.60	2.01	36.7
MAX	9.0	4.4	3.0	1.4	120	124	44	18	13	29	7.1	307
MIN	1.1	1.2	.90	1.0	1.1	6.5	2.9	2.1	1.0	.37	.55	1.7
CFSM	.09	.08	.06	.05	.62	1.46	.38	.16	.12	.11	.09	1.59
IN.	.10	.09	.07	.06	.64	1.68	.43	.19	.13	.13	.10	1.77

CAL YR 1976 TOTAL 6045.46 MEAN 16.5 MAX 438 MIN .86 CFSM .71 IN 9.74
WTR YR 1977 TOTAL 3349.91 MEAN 9.18 MAX 307 MIN .37 CFSM .40 IN 5.39

05536255 BUTTERFIELD CREEK AT FLOSSMOOR, IL

LOCATION.--Lat 41°32'25", long 87°38'55", in NE¼NW¼ sec.8, T.35 N., R.14 E., Cook County, Hydrologic Unit 07120003, on left bank at downstream side of Reigle Road Bridge at Homewood city limits, 0.1 mi (0.2 km) north of Holbrook Road, 0.8 mi (1.3 km) east of Flossmoor, and at mile 1.77 (2.85 km).

DRAINAGE AREA.--23.5 mi^2 (60.9 km^2).

PERIOD OF RECORD.--May 1948 to current year. Prior to October 1975, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WSP 1437: 1948(M), 1953, 1955. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 616.80 ft (188.001 m) above mean sea level. Prior to Sept. 9, 1948, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--29 years, 17.1 ft^3/s (0.484 m^3/s), 9.88 in/yr (251 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft^3/s (722 m^3/s) July 13, 1957, gage height, 11.78 ft (3.591 m); no flow at times in several years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 964 ft^3/s (27.3 m^3/s) Sept. 18, gage height, 10.19 ft (3.106 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	3.6	.12	.00	.00	2.7	14	1.3	.00	78	.43	145
2	.58	1.8	.04	.00	.00	2.5	27	2.4	.00	23	.04	93
3	.39	1.1	.00	.00	.10	6.2	15	1.4	.00	12	.00	34
4	.18	.70	.00	.00	.20	14	20	4.2	.00	7.3	.61	27
5	1.1	.42	.00	.00	.30	26	24	66	9.6	3.0	1.8	208
6	30	.12	.00	.00	.20	17	13	87	4.0	2.2	2.1	57
7	5.8	.00	.00	.00	.10	10	9.8	26	1.1	1.4	1.5	31
8	1.9	.00	.00	.30	.00	7.0	7.8	13	.38	2.8	19	20
9	1.1	.00	.00	.20	.00	4.7	5.9	7.5	.04	16	6.1	14
10	.78	.00	.00	.10	.30	4.0	4.8	5.6	.00	3.5	13	8.0
11	.65	.00	.00	.00	4.0	3.3	3.8	3.9	41	1.1	4.0	4.5
12	.32	.00	.00	.00	30	52	3.5	2.9	13	21	1.7	3.6
13	.06	.00	.00	.00	12	23	4.4	2.1	4.0	9.2	1.1	50
14	.00	.00	.00	.10	4.5	11	4.8	1.4	1.8	2.6	.77	27
15	.00	.00	.00	.20	3.5	6.1	3.5	1.2	.69	1.1	.42	91
16	.00	.00	.20	.10	2.5	3.6	2.6	1.1	.27	.83	.84	63
17	.00	.00	.08	.00	1.5	3.6	2.5	.97	.38	.99	.68	37
18	.00	.00	.05	.00	1.0	36	1.7	.69	17	1.6	.13	558
19	.01	.00	.20	.00	.90	13	6.8	.64	4.8	3.0	.09	225
20	.84	.00	1.0	.00	.80	23	26	.52	1.5	1.7	.03	90
21	1.0	.00	.50	.00	.75	27	9.2	.32	.56	.83	10	54
22	.40	.00	.05	.00	.75	33	7.1	.15	.18	.27	6.7	40
23	.31	.00	.00	.00	20	32	4.2	.70	.04	.10	3.1	33
24	2.0	.00	.00	.00	9.0	17	2.8	1.5	.00	.04	2.1	33
25	1.9	.00	.00	.00	6.5	9.6	2.5	.66	.00	.00	.88	20
26	1.6	.54	.02	.00	4.5	6.8	1.8	.27	.00	.00	.26	17
27	3.4	15	.00	.00	3.5	5.6	2.1	.06	.00	.00	.07	9.3
28	2.5	3.4	.00	.00	3.0	61	2.4	.02	.14	.00	6.6	6.6
29	1.5	1.1	.00	.00	---	103	2.6	.00	.00	.00	27	5.4
30	2.0	.31	.00	.00	---	43	1.6	.00	76	.36	8.4	4.8
31	6.9	---	.00	.00	---	22	---	.00	---	.35	3.4	---
TOTAL	68.32	28.09	2.26	1.00	109.90	628.7	237.2	233.50	176.48	194.27	122.85	2009.2
MEAN	2.20	.94	.073	.032	3.93	20.3	7.91	7.53	5.88	6.27	3.96	67.0
MAX	30	15	1.0	.30	30	103	27	87	76	78	27	558
MIN	.00	.00	.00	.00	.00	2.5	1.6	.00	.00	.00	.00	3.6
CFSM	.09	.04	.003	.001	.17	.86	.34	.32	.25	.27	.17	2.85
IN.	.11	.04	.00	.00	.17	1.00	.38	.37	.28	.31	.19	3.18

CAL YR 1976 TOTAL 6321.27 MEAN 17.3 MAX 406 MIN .00 CFSM .74 IN 10.01
WTR YR 1977 TOTAL 3811.77 MEAN 10.4 MAX 558 MIN .00 CFSM .44 IN 6.03

05536265 LANSING DITCH NEAR LANSING, IL

LOCATION.--Lat 41°31'40", long 87°31'45", at north boundary of sec.17, T.35 N., R.15 E., Cook County, Hydrologic Unit 07120003, on right bank at upstream side of bridge on 202nd Street, 0.2 mi (0.3 km) west of Indiana State line, 0.5 mi (0.8 km) east of Burnham Avenue, 2 mi (3 km) south of Lansing, and at mile 2.66 (4.28 km).

DRAINAGE AREA.--8.84 mi² (22.90 km²).

PERIOD OF RECORD.--May 1948 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 607.16 ft (185.062 m) above mean sea level. Prior to Sept. 20, 1948, nonrecording gage at same site and datum.

REMARKS.--Records poor. Some diurnal fluctuation caused by pumping operations above station. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--29 years, 7.72 ft³/s (0.219 m³/s), 11.85 in/yr (301 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 461 ft³/s (13.1 m³/s) May 10 or 11, 1948, gage height, 9.24 ft (2.816 m), from floodmark; maximum gage height, 10.18 ft (3.103 m) Oct. 11, 1954; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 362 ft³/s (10.3 m³/s) Sept. 18, gage height, 7.48 ft (2.280 m); no flow June 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	5.7	5.4	5.8	6.6	17	10	3.5	8.6	17	2.7	37
2	5.3	5.3	5.4	6.0	6.6	19	13	5.5	8.7	8.4	3.8	37
3	3.6	4.9	5.2	6.2	6.6	14	19	5.4	3.9	7.1	6.4	8.7
4	2.9	4.8	5.2	6.2	6.5	11	18	4.0	.00	3.1	3.6	6.5
5	4.0	4.6	5.3	6.2	6.4	10	19	14	9.3	.04	6.9	7.6
6	12	4.3	5.4	6.0	6.4	10	18	9.1	8.7	2.8	3.1	6.9
7	6.7	2.8	5.0	6.0	6.4	9.6	15	7.2	7.3	5.7	4.5	5.6
8	5.7	2.3	5.5	6.2	6.4	9.4	13	6.0	3.3	7.1	6.5	3.2
9	5.5	4.0	5.4	6.2	6.6	9.4	10	4.5	5.5	7.0	8.1	3.0
10	5.5	4.8	5.2	6.2	6.6	10	8.0	3.9	6.2	.16	8.4	3.0
11	5.3	4.9	5.2	6.2	6.8	11	7.0	6.2	7.0	2.8	3.0	3.0
12	5.3	3.9	5.4	6.0	6.8	20	6.5	7.2	2.0	10	2.3	3.0
13	6.0	4.7	5.4	6.2	14	18	7.0	8.5	7.2	8.9	2.0	16
14	5.0	1.8	5.6	6.0	15	15	9.0	7.0	6.5	6.2	.09	9.3
15	4.1	1.9	5.4	6.0	17	12	8.5	3.0	6.7	4.0	3.0	21
16	4.4	4.4	5.4	6.2	14	13	7.0	3.7	6.5	5.0	7.3	20
17	6.8	5.4	5.8	6.2	10	18	5.5	8.0	2.8	7.4	6.5	11
18	6.6	5.9	6.2	6.2	8.0	22	3.3	8.1	4.4	3.5	6.5	261
19	6.9	6.2	6.4	6.2	8.0	17	3.5	7.7	7.0	3.0	5.0	126
20	7.0	6.3	6.0	6.2	10	11	5.0	5.0	4.8	4.0	3.1	27
21	6.2	7.2	5.8	6.2	19	8.5	4.0	3.0	2.8	7.6	6.1	17
22	6.5	8.7	5.6	6.2	17	7.0	5.0	3.2	3.2	7.2	5.4	13
23	7.1	5.8	5.4	6.4	16	10	6.0	5.7	6.9	5.2	4.4	11
24	7.2	4.6	5.6	6.4	10	14	7.0	7.8	3.6	2.6	4.0	9.1
25	6.6	3.5	5.8	6.2	9.6	17	6.6	5.6	1.8	4.0	5.8	7.6
26	5.4	5.5	5.8	6.2	9.0	15	5.8	4.8	6.9	7.0	7.5	7.0
27	5.4	5.5	5.9	6.0	9.0	14	5.6	4.9	6.2	5.9	4.8	5.9
28	5.7	5.2	6.0	6.2	9.0	20	5.0	2.3	2.7	4.4	5.1	5.2
29	5.9	5.2	5.9	6.4	---	46	4.8	2.6	2.8	2.6	8.8	4.8
30	6.2	5.3	5.6	7.0	---	23	4.0	3.2	24	2.6	5.4	3.8
31	6.5	---	5.5	6.8	---	14	---	5.9	---	3.0	4.8	---
TOTAL	182.6	145.4	172.7	192.4	273.3	464.9	259.1	176.5	177.30	165.30	154.89	700.2
MEAN	5.89	4.85	5.57	6.21	9.76	15.0	8.64	5.69	5.91	5.33	5.00	23.3
MAX	12	8.7	6.4	7.0	19	46	19	14	24	17	8.8	261
MIN	2.9	1.8	5.0	5.8	6.4	7.0	3.3	2.3	.00	.04	.09	3.0
CFSM	.67	.55	.63	.70	1.10	1.70	.98	.64	.67	.60	.57	2.64
IN.	.77	.61	.73	.81	1.15	1.96	1.09	.74	.75	.70	.65	2.95

CAL YR 1976 TOTAL 4106.06 MEAN 11.2 MAX 303 MIN .06 CFSM 1.27 IN 17.28
WTR YR 1977 TOTAL 3064.59 MEAN 8.40 MAX 261 MIN .00 CFSM .95 IN 12.89

05536270 NORTH CREEK NEAR LANSING, IL

LOCATION.--Lat 41°32'45", long 87°33'30", in SE¼SE¼ sec.1, T.35 N., R.14 E., Cook County, Hydrologic Unit 07[illegible]20003, on right bank at downstream side of bridge on Torrence Avenue, 1.1 mi (1.8 km) south of Lansing, 2.7 mi (4.3 km) north of U.S. Highway 30, and at mile 5.80 (9.33 km).

DRAINAGE AREA.--16.8 mi² (43.5 km²).

PERIOD OF RECORD.--May 1948 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WSP 1337: 1948(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 599.29 ft (182.664 m) above mean sea level. Prior to Dec. 16, 1948, nonrecording gage at same site and datum.

REMARKS.--Records poor. Some diurnal fluctuation caused by pumping operations above the station.

AVERAGE DISCHARGE.--29 years, 14.4 ft³/s (0.408 m³/s), 11.66 in/yr (296 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 692 ft³/s (19.6 m³/s) Oct. 10, 1954, gage height, 8.96 ft (2.731 m); no flow at times in several years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 20, 1948, reached a stage of 8.51 ft (2.594 m), from floodmark, discharge, 730 ft³/s (20.7 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 238 ft³/s (6.74 m³/s) Sept. 18, gage height, 7.65 ft (2.332 m); minimum daily, 1.4 ft³/s (0.040 m³/s) June 4, July 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	8.9	5.6	5.8	7.0	17	15	2.5	6.7	19	4.0	40
2	6.0	8.3	5.6	6.0	7.0	19	27	3.3	7.1	15	3.9	52
3	5.0	8.2	5.6	6.2	7.0	18	27	4.6	5.7	10	7.0	17
4	4.2	8.2	5.4	6.2	7.0	13	20	4.6	1.4	6.7	4.8	11
5	5.6	8.5	5.4	6.3	7.0	12	24	22	6.9	2.6	8.2	13
6	15	8.2	5.6	6.3	6.9	11	17	20	8.8	2.6	5.7	11
7	7.2	6.5	5.7	6.3	6.9	11	15	12	8.1	5.7	6.1	8.6
8	6.5	5.2	5.8	6.2	7.0	11	12	9.4	4.6	7.0	12	6.1
9	6.0	6.1	5.8	6.0	7.0	11	8.2	6.8	5.3	8.1	9.6	5.3
10	5.7	7.5	5.6	5.9	7.2	11	7.3	2.5	6.2	2.7	11	5.0
11	5.6	8.0	5.5	5.9	8.2	12	6.6	5.0	14	2.1	6.2	4.9
12	5.4	7.5	5.5	6.0	10	20	6.1	7.1	6.8	10	4.6	5.1
13	6.3	7.5	5.6	6.2	14	19	5.8	7.8	7.3	9.5	4.2	21
14	6.5	6.1	5.7	6.3	18	13	7.8	7.1	7.7	6.6	2.5	15
15	5.2	3.8	5.7	6.4	26	11	8.5	2.4	7.4	4.1	2.4	29
16	4.4	5.3	5.7	6.4	12	11	8.1	2.6	6.5	3.2	7.7	30
17	6.7	6.7	6.1	6.4	10	12	6.5	6.4	4.4	7.3	7.8	17
18	8.1	7.2	6.3	6.4	10	23	3.4	8.0	6.1	6.2	7.3	189
19	7.9	7.2	6.4	6.4	10	16	2.7	7.8	6.6	2.6	7.1	145
20	8.0	7.3	6.4	6.5	15	17	4.8	6.6	6.2	2.9	5.2	66
21	7.9	7.6	6.2	6.5	18	23	3.5	2.7	3.9	7.0	7.2	36
22	7.4	7.5	6.0	6.5	18	37	4.6	2.8	3.8	7.5	8.0	24
23	8.5	6.9	5.6	6.6	18	37	5.3	4.2	6.2	6.0	5.6	19
24	9.2	5.3	5.8	6.6	15	26	6.0	7.4	5.9	1.7	5.2	18
25	9.4	4.3	5.8	6.5	9.5	20	6.6	2.8	1.7	1.4	5.5	15
26	9.0	5.7	6.0	6.5	9.8	14	6.0	3.3	6.2	6.9	7.2	14
27	8.6	5.6	6.0	6.5	9.8	12	4.9	4.8	7.2	6.9	6.3	11
28	8.6	5.4	6.0	6.6	9.8	31	5.2	1.8	5.0	5.8	6.7	8.9
29	8.6	5.4	6.0	6.8	---	68	4.1	2.7	4.7	3.8	13	8.0
30	9.5	5.5	6.0	7.0	---	42	4.6	2.9	11	3.8	6.9	7.5
31	11	---	5.6	7.0	---	23	---	4.0	---	4.0	5.8	---
TOTAL	229.1	201.4	180.0	197.2	311.1	621	283.6	187.9	189.4	188.7	204.7	852.4
MEAN	7.39	6.71	5.81	6.36	11.1	20.0	9.45	6.06	6.31	6.09	6.60	28.4
MAX	15	8.9	6.4	7.0	26	68	27	22	14	19	13	189
MIN	4.2	3.8	5.4	5.8	6.9	11	2.7	1.8	1.4	1.4	2.4	4.9
CFSM	.44	.40	.35	.38	.66	1.19	.56	.36	.38	.36	.39	1.69
IN.	.51	.45	.40	.44	.69	1.37	.63	.42	.42	.42	.45	1.89

CAL YR 1976 TOTAL 6570.2 MEAN 18.0 MAX 349 MIN 1.1 CFSM 1.07 IN 14.55
WTR YR 1977 TOTAL 3646.5 MEAN 9.99 MAX 189 MIN 1.4 CFSM .60 IN 8.07

05536275 THORN CREEK AT THORNTON, IL

LOCATION.--Lat 41°34'05", long 87°36'30", near center of N½ sec.34, T.36 N., R.14 E., Cook County, Hydrologic Unit 07120003, on right bank at downstream side of bridge on Margaret Street in Thornton, 1.0 mi (1.6 km) downstream from North Creek, and at mile 4.25 (6.84 km).

DRAINAGE AREA.--104 mi^2 (269 km^2).

PERIOD OF RECORD.--May 1948 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WSP 1707: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 586.43 ft (178.744 m) above mean sea level. Prior to Dec. 18, 1948, nonrecording gage at same site and datum.

REMARKS.--Records good. Some diurnal fluctuation caused by pumping operations above station. Figures of discharge include about 16 ft^3/s (0.45 m^3/s) pumped from ground-water sources for municipal supply and an undetermined amount of ground-water pumpage for industrial use.

AVERAGE DISCHARGE.--29 years, 97.7 ft^3/s (2.767 m^3/s), 12.76 in/yr (324 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,700 ft^3/s (133 m^3/s) July 13, 1957, gage height, 16.00 ft (4.877 m); minimum daily, 4.4 ft^3/s (0.12 m^3/s) Sept. 11, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 5, 1947, reached a stage of 14.34 ft (4.371 m), from floodmark, discharge, 4,200 ft^3/s (119 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,580 ft^3/s (44.7 m^3/s) Sept. 18, gage height, 11.43 ft (3.484 m); minimum daily, 17 ft^3/s (0.48 m^3/s) Dec. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	45	29	28	28	57	115	34	49	357	22	423
2	23	40	28	23	22	48	189	41	51	115	19	473
3	22	37	26	22	22	53	193	35	52	64	23	165
4	20	36	25	24	23	137	163	34	46	46	35	97
5	37	34	24	25	21	163	171	258	102	31	39	408
6	147	41	25	24	20	104	124	239	58	23	54	156
7	63	40	26	24	23	79	100	106	45	24	36	104
8	39	37	25	24	25	69	80	73	38	32	134	83
9	31	37	26	24	25	73	67	54	31	75	82	68
10	29	36	27	26	38	76	58	45	30	33	114	53
11	28	35	23	26	63	69	57	36	199	22	62	44
12	26	36	22	27	118	214	51	38	94	114	43	42
13	26	33	23	27	131	173	51	36	49	68	37	228
14	26	33	24	24	72	114	52	33	42	36	32	166
15	29	29	25	22	58	88	47	29	37	25	21	307
16	27	27	22	21	56	73	44	25	35	22	35	284
17	31	27	23	31	47	71	40	28	33	22	40	170
18	37	31	26	31	45	176	38	34	100	33	35	993
19	37	34	29	25	46	130	49	34	47	29	34	1160
20	35	32	38	22	40	139	133	36	38	23	38	445
21	36	30	29	21	40	165	77	33	33	23	108	239
22	37	31	24	21	39	180	60	28	30	25	83	161
23	40	32	20	20	119	199	49	35	32	23	46	131
24	45	31	18	20	223	155	43	52	37	19	37	150
25	45	29	18	21	131	119	45	46	37	18	35	116
26	46	39	17	22	94	99	41	44	34	21	38	109
27	58	93	22	22	71	87	38	46	43	28	37	82
28	45	43	24	23	67	243	45	43	46	28	67	67
29	43	32	20	28	---	563	41	38	43	33	161	64
30	53	29	18	31	---	294	35	39	284	26	75	56
31	67	---	20	30	---	166	---	43	---	25	46	---
TOTAL	1250	1089	746	759	1707	4376	2296	1695	1795	1463	1668	7044
MEAN	40.3	36.3	24.1	24.5	61.0	141	76.5	54.7	59.8	47.2	53.8	235
MAX	147	93	38	31	223	563	193	258	284	357	161	1160
MIN	20	27	17	20	20	48	35	25	30	18	19	42
CFSM	.39	.35	.23	.24	.59	1.36	.74	.53	.58	.45	.52	2.26
IN.	.45	.39	.27	.27	.61	1.57	.82	.61	.64	.52	.60	2.52

CAL YR 1976 TOTAL 37665 MEAN 103 MAX 1560 MIN 17 CFSM .99 IN 13.47
WTR YR 1977 TOTAL 25888 MEAN 70.9 MAX 1160 MIN 17 CFSM .68 IN 9.26

05536290 LITTLE CALUMET RIVER AT SOUTH HOLLAND, IL

LOCATION.--Lat 41°36'05", long 87°34'38", in SW¼SW¼ sec.13, T.36 N., R.14 E., Cook County, Hydrologic Unit 07120003, on right bank at downstream side of bridge on U.S. Highway 6, 0.6 mi (1.0 km) downstream from Thorn Creek, 1.6 mi (2.6 km) east of South Holland, and at mile 21.66 (34.85 km).

DRAINAGE AREA.--205 mi² (531 km²).

PERIOD OF RECORD.--October 1947 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WSP 1507: 1950, 1953.

GAGE.--Water-stage recorder. Datum of gage is 575.00 ft (175.260 m) above mean sea level (Illinois Department of Transportation bench mark). Prior to Oct. 27, 1947, nonrecording gage at same site and datum. Nov. 17, 1947, to Nov. 19, 1970, auxiliary water-stage recorder at Dixmoor, 6.1 mi (9.8 km) downstream; prior to Nov. 17, 1947, nonrecording gage at same site read twice daily.

REMARKS.--Records good except those for winter periods, which are poor. Flow from upper Little Calumet River is diverted to Lake Michigan by Burns ditch. Calumet Sag Channel, 8 mi (13 km) below station, diverts the entire flow to the Mississippi River basin. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--30 years, 176 ft³/s (4.984 m³/s), 11.66 in/yr (296 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,440 ft³/s (126 m³/s) July 14, 1957, gage height, 20.11 ft (6.130 m); minimum daily, 7.9 ft³/s (0.22 m³/s) Oct. 6, 1950.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 6, 1947, reached a stage of 19.24 ft (5.864 m), from floodmarks, discharge, 4,760 ft³/s (135 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,050 ft³/s (58.1 m³/s) Sept. 19, gage height, 15.10 ft (4.602 m); minimum daily, 28 ft³/s (0.79 m³/s) Jan. 19, 20, July 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	61	52	31	32	103	249	61	43	614	32	1010
2	39	54	49	31	33	85	334	79	44	217	31	1030
3	38	47	48	31	34	87	354	67	43	111	31	355
4	33	44	46	32	32	194	293	65	42	79	47	162
5	51	46	44	33	31	299	320	376	119	63	59	478
6	248	49	41	32	30	200	257	379	88	53	62	246
7	108	50	42	30	29	153	200	209	53	47	70	138
8	68	46	43	30	34	129	164	147	49	60	187	103
9	55	48	42	30	43	131	139	110	48	106	122	86
10	49	48	41	30	56	129	124	93	40	58	126	73
11	46	47	39	29	82	120	111	78	300	45	85	63
12	43	47	38	29	200	278	102	71	175	150	60	63
13	42	46	37	29	250	302	95	66	79	123	48	288
14	38	46	37	29	154	205	97	59	65	62	44	276
15	38	43	38	29	111	161	87	54	57	47	37	410
16	37	40	37	29	95	133	80	49	53	38	44	508
17	53	44	36	29	84	115	71	49	54	37	52	277
18	65	45	35	29	76	255	66	50	130	45	46	1300
19	55	42	38	28	78	233	76	49	72	54	44	1920
20	50	42	45	28	70	224	158	52	55	38	44	1070
21	46	40	42	29	69	277	139	47	50	36	92	534
22	42	41	35	30	68	299	101	41	42	37	112	352
23	42	43	34	31	125	363	86	48	41	35	59	269
24	49	41	33	31	385	306	77	74	44	31	47	266
25	47	40	33	31	309	241	80	52	42	28	44	225
26	49	49	32	30	197	190	78	47	35	29	45	199
27	63	160	32	30	142	161	71	44	36	31	52	161
28	52	89	32	29	121	331	75	44	43	32	81	136
29	45	65	31	29	---	905	74	37	48	34	259	120
30	51	59	31	29	---	620	63	37	319	37	108	112
31	96	---	31	30	---	368	---	38	---	33	69	---
TOTAL	1778	1562	1194	927	2970	7597	4221	2672	2309	2410	2239	12230
MEAN	57.4	52.1	38.5	29.9	106	245	141	86.2	77.0	77.7	72.2	408
MAX	248	160	52	33	385	905	354	379	319	614	259	1920
MIN	33	40	31	28	29	85	63	37	35	28	31	63
CFSM	.28	.25	.19	.15	.52	1.20	.69	.42	.38	.38	.35	1.99
IN.	.32	.28	.22	.17	.54	1.38	.77	.48	.42	.44	.41	2.22

CAL YR 1976 TOTAL 72269 MEAN 197 MAX 2560 MIN 30 CFSM .96 IN 13.11
WTR YR 1977 TOTAL 42109 MEAN 115 MAX 1920 MIN 28 CFSM .56 IN 7.64

05536340 MIDLOTHIAN CREEK AT OAK FOREST, IL

LOCATION.--Lat 41°36'51", long 87°43'46", in SE¼NW¼ sec.15, T.36 N., R.13 E., Cook County, Hydrologic Unit 07120003, on right bank at downstream side of bridge on Kilbourn Avenue in Oak Forest, and at mile 4.38 (7.05 km).

DRAINAGE AREA.--12.6 mi^2 (32.6 km^2).

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1974, records published with those for streams in the St. Lawrence River basin (WSP 1307, 1727, 1911, 2111, WDR IL 1971-74).

REVISED RECORDS.--WSP 1337: 1951-53. WSP 1911: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 620.41 ft (189.101 m) above mean sea level (Cook County Highway Department bench mark).

REMARKS.--Records fair except those for winter periods, which are poor. Diurnal fluctuation at low flow caused by small industrial plants upstream. Flow bypassed gage from Nov. 21, 1962, to Mar. 2, 1963, due to diversion 1.0 mi (1.6 km) upstream.

AVERAGE DISCHARGE.--27 years, 10.5 ft^3/s (0.297 m^3/s), 11.31 in/yr (287 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 627 ft^3/s (17.8 m^3/s) Apr. 22, 1973, gage height, 7.67 ft (2.338 m); maximum gage height, 9.00 ft (2.743 m) July 13, 1975; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 166 ft^3/s (4.70 m^3/s) Sept. 1, gage height, 3.64 ft (1.109 m); minimum daily discharge, 0.10 ft^3/s (0.003 m^3/s) Dec. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	.81	.12	.12	.14	3.6	9.9	1.5	1.5	44	.80	122
2	1.4	.79	.10	.12	.14	3.3	16	1.6	1.2	24	.71	127
3	1.0	.75	.12	.12	.14	3.2	9.9	1.5	1.1	10	.68	112
4	.71	.68	.12	.12	.14	8.8	9.7	3.7	1.1	5.4	1.2	73
5	2.1	.58	.12	.12	.14	17	14	23	5.9	4.0	2.1	81
6	9.8	.53	.12	.12	.14	9.8	9.5	18	4.2	3.9	1.7	60
7	7.8	.44	.12	.12	.14	8.4	5.8	8.5	2.2	2.6	1.1	32
8	4.3	.35	.12	.20	.14	6.3	4.2	4.4	1.6	3.3	5.1	19
9	2.8	.29	.12	.12	.14	5.0	3.2	3.0	1.4	6.4	3.8	13
10	1.9	.24	.12	.12	.20	4.7	2.7	2.5	1.3	2.8	8.0	9.7
11	1.6	.27	.12	.16	1.0	4.2	2.5	2.4	21	1.9	6.9	6.9
12	1.4	.31	.12	.18	1.6	11	2.5	2.1	25	6.4	4.4	6.3
13	1.3	.32	.12	.20	2.2	14	2.6	1.7	11	8.0	2.7	16
14	1.0	.29	.12	.21	2.6	7.6	3.3	1.5	6.3	5.1	1.7	24
15	.94	.27	.12	.20	2.6	6.8	2.4	1.2	4.1	3.0	1.4	35
16	.87	.25	.12	.20	2.6	6.5	2.2	1.2	3.2	2.8	1.7	48
17	.74	.27	.12	.16	2.0	4.9	1.9	2.6	4.9	2.3	1.5	41
18	.51	.30	.12	.14	1.1	19	2.0	1.5	9.7	3.8	1.2	65
19	.61	.29	.12	.14	.90	7.8	5.8	1.3	6.7	4.2	1.0	67
20	.71	.31	.12	.14	.80	14	12	1.2	4.2	2.6	1.0	61
21	.77	.30	.12	.14	.74	17	5.9	1.6	3.3	2.4	2.7	53
22	.76	.28	.12	.14	.90	18	6.0	2.5	2.7	2.7	3.3	48
23	.87	.23	.12	.14	12	18	3.7	3.9	2.3	2.0	1.7	40
24	.88	.26	.12	.14	15	11	2.6	2.6	2.1	1.3	1.2	34
25	1.1	.29	.12	.14	12	6.4	2.4	2.1	1.6	1.0	.95	28
26	.94	.80	.12	.14	10	4.7	2.3	1.7	1.2	.98	.87	25
27	.96	1.4	.12	.14	5.0	4.7	2.1	1.6	1.3	.93	.87	22
28	.91	1.4	.12	.14	4.0	42	3.3	1.4	1.9	.87	4.2	16
29	.87	1.2	.12	.14	---	78	2.7	1.0	1.7	1.2	7.4	13
30	.98	.50	.12	.14	---	33	1.8	1.0	25	.89	5.9	11
31	.93	---	.12	.14	---	16	---	1.1	---	1.0	3.3	---
TOTAL	53.06	15.00	3.70	4.55	78.50	414.7	154.9	104.9	160.7	161.77	81.08	1308.9
MEAN	1.71	.50	.12	.15	2.80	13.4	5.16	3.38	5.36	5.22	2.62	43.6
MAX	9.8	1.4	.12	.21	15	78	16	23	25	44	8.0	127
MIN	.51	.23	.10	.12	.14	3.2	1.8	1.0	1.1	.87	.68	6.3
CFSM	.14	.04	.01	.01	.22	1.06	.41	.27	.43	.41	.21	3.46
IN.	.16	.04	.01	.01	.23	1.22	.46	.31	.47	.48	.24	3.86

CAL YR 1976 TOTAL 3871.73 MEAN 10.6 MAX 150 MIN .10 CFSM .84 IN 11.43
WTR YR 1977 TOTAL 2541.76 MEAN 6.96 MAX 127 MIN .10 CFSM .55 IN 7.50

05536368 CALUMET SAG CHANNEL AT BLUE ISLAND, IL

LOCATION.--Lat 41°39'10", long 87°40'13", in NW¼SE¼ sec.31, T.37 N., R.14 E., Cook County, Hydrologic Unit 07120003, on left upstream side of bridge on Division Street in Blue Island, 1.0 mi (1.6 km) downstream from Little Calumet River.

DRAINAGE AREA.--Indeterminate.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1975 to September 1977 (discontinued).

INSTRUMENTATION.--Water-quality monitor since June 1975.

REMARKS.--No record Jan. 1-9, Mar. 21 to Apr. 12 due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 28.0°C July 15, 1977; minimum, 0.0°C Dec. 31, 1976, Jan. 27 to Feb. 2, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 28.0°C July 15; minimum, 0.0°C Dec. 31, Jan. 27 to Feb. 2.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.5	19.5	19.5	11.5	11.5	11.5	4.0	4.0	4.0	---	---	---
2	20.0	19.5	19.5	11.5	11.5	11.5	4.0	4.0	4.0	---	---	---
3	20.0	20.0	20.0	11.5	11.5	11.5	4.0	4.0	4.0	---	---	---
4	20.0	20.0	20.0	11.5	11.5	11.5	4.5	4.0	4.5	---	---	---
5	20.0	20.0	20.0	11.5	10.5	11.0	4.5	3.5	4.0	---	---	---
6	20.0	17.5	18.0	10.5	10.5	10.5	3.5	3.5	3.5	---	---	---
7	17.5	16.0	16.5	10.5	10.5	10.5	3.5	3.0	3.5	---	---	---
8	16.0	16.0	16.0	10.5	10.0	10.0	3.0	3.0	3.0	---	---	---
9	16.5	16.0	16.5	10.0	9.5	9.5	3.0	3.0	3.0	---	---	---
10	16.5	16.5	16.5	9.5	8.0	9.0	3.0	3.0	3.0	1.5	1.0	1.5
11	16.5	16.5	16.5	8.0	7.5	7.5	3.0	2.5	3.0	1.0	1.0	1.0
12	16.5	16.5	16.5	7.5	7.5	7.5	2.5	2.5	2.5	1.0	0.5	0.5
13	17.0	16.5	16.5	7.5	7.5	7.5	2.5	2.5	2.5	0.5	0.5	0.5
14	17.0	17.0	17.0	7.5	7.5	7.5	2.5	2.5	2.5	0.5	0.5	0.5
15	17.0	16.5	17.0	7.5	7.5	7.5	2.5	2.5	2.5	0.5	0.5	0.5
16	16.5	16.0	16.5	9.0	7.0	7.5	2.5	2.5	2.5	0.5	0.5	0.5
17	16.0	15.0	15.5	9.0	7.5	8.0	2.5	2.5	2.5	0.5	0.5	0.5
18	15.0	14.0	15.0	7.5	7.5	7.5	2.5	2.5	2.5	0.5	0.5	0.5
19	14.0	13.5	13.5	7.5	7.5	7.5	2.5	2.5	2.5	0.5	0.5	0.5
20	13.5	13.5	13.5	8.0	7.5	7.5	2.5	2.5	2.5	0.5	0.5	0.5
21	13.5	13.0	13.5	8.0	7.5	7.5	2.5	2.5	2.5	0.5	0.5	0.5
22	13.0	13.0	13.0	7.5	7.0	7.5	2.5	1.0	2.0	0.5	0.5	0.5
23	13.0	13.0	13.0	7.0	7.0	7.0	1.0	1.0	1.0	0.5	0.5	0.5
24	13.0	13.0	13.0	7.0	7.0	7.0	1.0	1.0	1.0	0.5	0.5	0.5
25	13.0	12.5	13.0	7.0	7.0	7.0	1.0	1.0	1.0	0.5	0.5	0.5
26	12.5	12.5	12.5	7.0	7.0	7.0	1.0	1.0	1.0	0.5	0.5	0.5
27	12.5	12.0	12.5	7.0	7.0	7.0	1.0	1.0	1.0	0.5	0.0	0.0
28	12.0	12.0	12.0	7.0	6.0	6.5	1.0	1.0	1.0	0.0	0.0	0.0
29	12.0	10.5	11.5	6.0	4.5	5.0	1.0	1.0	1.0	0.0	0.0	0.0
30	11.5	10.0	[illegible]	4.5	4.0	4.5	1.0	0.5	1.0	0.0	0.0	0.0
31	11.5	11.5	11.5	---	---	---	0.5	0.0	0.5	0.0	0.0	0.0
MONTH	20.0	10.0	[illegible]	11.5	4.0	8.5	4.5	0.0	2.5	1.5	0.0	0.5

05536368 CALUMET SAG CHANNEL AT BLUE ISLAND, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	2.5	2.5	2.5	---	---	---	16.5	15.0	16.0
2	0.5	0.0	0.0	3.5	2.5	3.0	---	---	---	16.5	16.0	16.0
3	0.5	0.5	0.5	6.0	3.5	4.5	---	---	---	17.0	15.5	16.0
4	0.5	0.5	0.5	4.0	4.0	4.0	---	---	---	17.0	16.0	16.5
5	0.5	0.5	0.5	4.0	4.0	4.0	---	---	---	18.5	16.5	17.5
6	0.5	0.5	0.5	4.0	4.0	4.0	---	---	---	18.0	17.5	17.5
7	0.5	0.5	0.5	5.5	4.0	4.0	---	---	---	17.5	16.0	17.0
8	0.5	0.5	0.5	6.0	5.5	5.5	---	---	---	17.0	16.0	16.5
9	0.5	0.5	0.5	7.5	6.0	6.5	---	---	---	16.5	15.5	16.0
10	1.0	0.5	1.0	9.0	7.5	8.0	---	---	---	16.5	15.5	16.0
11	2.5	1.0	2.0	9.5	9.0	9.5	---	---	---	18.0	16.0	16.5
12	2.5	2.5	2.5	10.0	9.5	9.5	---	---	---	19.0	17.0	18.0
13	2.5	2.5	2.5	10.0	10.0	10.0	16.5	15.5	16.0	20.0	18.0	19.0
14	2.5	2.5	2.5	10.0	10.0	10.0	16.0	15.0	15.5	20.5	19.0	19.5
15	2.5	2.5	2.5	10.0	10.0	10.0	15.5	14.5	15.0	20.5	19.5	20.0
16	2.5	2.0	2.0	10.5	10.5	10.5	17.5	15.5	16.0	21.0	20.0	20.5
17	2.0	2.0	2.0	10.5	10.5	10.5	17.5	16.5	17.0	21.5	20.5	21.0
18	2.0	2.0	2.0	10.5	8.5	9.5	18.0	17.0	17.5	23.0	21.0	21.5
19	2.5	2.5	2.5	8.5	8.0	8.0	18.0	17.5	17.5	23.5	21.5	22.5
20	2.5	2.5	2.5	8.0	8.0	8.0	18.0	17.0	17.5	24.5	22.0	23.0
21	2.5	2.5	2.5	---	---	---	17.5	17.5	17.5	24.5	22.5	23.5
22	2.5	2.5	2.5	---	---	---	17.5	16.0	16.5	23.0	22.0	22.5
23	2.5	2.5	2.5	---	---	---	15.5	15.0	15.5	23.5	22.0	22.5
24	2.5	2.5	2.5	---	---	---	16.0	15.0	15.5	23.5	21.0	22.5
25	2.5	2.5	2.5	---	---	---	15.5	14.5	15.0	24.5	22.5	23.0
26	2.5	2.5	2.5	---	---	---	15.5	14.5	15.0	24.0	22.5	23.0
27	2.5	2.5	2.5	---	---	---	16.0	14.5	15.5	23.5	22.0	23.0
28	2.5	2.5	2.5	---	---	---	16.0	14.5	15.5	24.5	22.0	23.5
29	---	---	---	---	---	---	16.0	14.0	14.5	24.5	23.5	24.0
30	---	---	---	---	---	---	15.5	14.0	15.0	23.5	22.5	23.0
31	---	---	---	---	---	---	---	---	---	24.5	22.5	23.0
MONTH	2.5	0.0	1.5	10.5	2.5	7.0	18.0	14.0	16.0	24.5	15.0	20.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.0	21.5	22.0	23.0	21.0	22.0	25.5	24.5	25.0	25.0	23.5	23.5
2	21.5	21.0	21.0	23.0	21.0	22.0	24.5	24.5	24.5	24.0	23.0	23.5
3	22.0	21.0	21.0	23.5	22.5	23.0	25.0	24.5	24.5	24.0	23.0	23.5
4	22.5	21.0	21.5	25.0	23.5	24.0	25.0	24.5	25.0	24.5	23.0	24.0
5	22.0	21.5	22.0	26.0	24.5	25.5	24.5	24.5	24.5	24.5	22.5	23.5
6	22.5	21.0	22.0	27.5	25.5	26.5	24.5	24.5	24.5	23.5	22.0	22.5
7	21.5	21.0	21.0	26.5	26.0	26.5	25.0	24.5	24.5	23.5	22.5	23.0
8	21.0	20.0	20.5	26.5	25.0	26.0	24.5	24.0	24.5	24.0	23.0	23.5
9	20.5	19.5	20.0	26.0	25.0	25.5	24.0	23.5	24.0	24.0	23.0	23.5
10	20.5	19.5	20.0	25.5	25.0	25.0	25.0	23.5	24.5	24.0	22.5	23.0
11	20.0	18.5	19.5	25.5	24.5	25.0	24.5	23.5	24.5	24.0	22.5	23.0
12	19.0	18.0	18.5	26.5	25.0	25.5	24.5	23.0	23.5	23.0	21.5	22.0
13	19.5	18.5	19.0	27.0	25.5	26.0	24.5	24.0	24.5	21.5	19.0	20.5
14	21.0	19.0	20.0	27.0	26.0	26.5	25.0	24.5	24.5	20.5	19.0	20.0
15	21.5	20.0	21.0	28.0	26.5	27.0	25.0	24.5	24.5	20.5	18.5	19.5
16	23.0	21.0	22.0	27.5	26.5	27.0	25.0	24.5	25.0	19.5	17.5	18.5
17	23.5	22.0	22.5	27.0	25.5	26.5	25.5	24.5	25.0	21.0	19.0	20.0
18	24.0	22.5	23.5	26.5	25.5	26.0	24.5	24.0	24.5	21.0	20.0	20.5
19	24.0	23.0	23.5	27.5	26.0	26.5	24.0	23.5	23.5	20.5	20.0	20.5
20	24.5	23.0	23.5	27.5	26.5	27.0	23.5	23.0	23.5	20.0	19.0	19.5
21	24.0	22.5	23.0	27.5	26.5	27.0	23.5	23.0	23.0	19.0	17.5	18.5
22	24.0	22.5	23.0	27.0	25.5	26.0	24.0	22.5	23.0	19.0	18.0	18.5
23	23.5	23.0	23.0	26.5	24.5	25.5	24.0	23.0	23.5	20.0	18.5	19.0
24	25.0	23.0	24.0	25.5	25.0	25.5	24.5	23.0	23.5	20.5	19.5	20.5
25	25.5	24.0	24.5	26.0	25.0	25.5	24.5	23.0	23.5	21.0	20.0	20.5
26	25.5	24.5	24.5	25.0	24.0	24.5	24.0	23.0	23.5	20.5	20.0	20.5
27	25.5	24.5	24.5	25.0	24.0	24.5	25.0	24.0	24.5	20.0	19.0	19.5
28	25.0	24.5	24.5	24.5	24.0	24.5	26.0	24.5	25.0	20.5	19.0	19.5
29	25.5	24.5	24.5	25.5	24.0	24.5	25.0	24.5	24.5	20.5	19.0	19.5
30	24.5	21.0	23.0	26.5	24.5	25.0	24.5	24.0	24.5	20.5	19.5	19.5
31	---	---	---	25.5	24.5	25.0	25.5	24.5	25.0	---	---	---
MONTH	25.5	18.0	22.0	28.0	21.0	25.5	26.0	22.5	24.5	25.0	17.5	21.0
YEAR	28.0	0.0	14.0									

05536500 TINLEY CREEK NEAR PALOS PARK, IL

LOCATION.--Lat 41°38'48", long 87°45'59", in SW¼SE¼ sec.32, T.37 N., R.13 E., Cook County, Hydrologic Unit 07120003, on left bank at downstream side of bridge on 135th Street, 1.5 mi (2.4 km) west of State Highway 50, 3 mi (5 km) southeast of Palos Park, and at mile 1.75 (2.82 km).

DRAINAGE AREA.--11.2 mi² (29.0 km²).

PERIOD OF RECORD.--July 1951 to current year. Prior to October 1952, records published with those for streams in the St. Lawrence River basin (WSP 1237).

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 607.40 ft (185.136 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--26 years, 8.86 ft³/s (0.251 m³/s), 10.74 in/yr (273 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft³/s (36.0 m³/s) Apr. 30, 1970, gage height, 9.83 ft (2.996 m); maximum gage height, 10.30 ft (3.139 m) Oct. 10, 1954; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 372 ft³/s (10.5 m³/s) Sept. 1, gage height, 5.90 ft (1.798 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.94	.40	.08	.00	2.2	6.2	.78	.14	20	.00	223
2	.20	.52	.30	.12	.00	1.9	11	1.7	.11	7.0	.00	61
3	.13	.33	.25	.18	.02	2.2	6.7	1.3	.07	1.8	.00	19
4	.13	.24	.20	.20	.06	20	6.4	.98	.06	1.0	.00	12
5	.13	.16	.10	.26	.10	16	9.9	39	.79	.60	.82	9.1
6	11	.13	.10	.28	.04	6.0	5.3	15	2.1	.30	.55	6.6
7	2.6	.11	.15	.16	.00	4.6	3.6	7.4	.57	.20	.71	5.5
8	.75	.09	.12	.12	.00	3.6	2.6	3.7	.32	.06	9.2	4.2
9	.37	.08	.10	.12	.02	3.0	2.0	2.2	.19	.20	4.5	8.5
10	.22	.08	.12	.10	.06	2.5	1.7	1.5	.09	.10	18	1.8
11	.14	.06	.14	.05	.10	2.8	1.4	1.1	22	.06	6.4	3.0
12	.13	.06	.12	.00	1.5	11	1.1	.84	9.7	.04	2.3	1.3
13	.10	.06	.10	.00	3.0	10	1.0	.68	3.7	.30	.72	17
14	.08	.05	.08	.00	3.5	7.5	1.2	.60	1.6	.20	.37	11
15	.06	.04	.06	.00	3.0	5.4	.96	.51	.82	.06	.28	39
16	.06	.05	.06	.00	2.2	2.7	.88	.53	.58	.00	.16	27
17	.05	.07	.06	.00	1.0	1.7	.82	.41	.42	.20	.41	17
18	.05	.08	.06	.00	.45	11	.73	.83	12	.27	.18	112
19	.06	.10	.20	.00	.40	6.1	.96	.37	2.5	.54	.09	35
20	.06	.11	.35	.00	1.0	8.6	5.7	.27	.75	.30	.06	18
21	.07	.11	.70	.00	.80	13	3.8	.25	.38	.06	2.4	12
22	.13	.10	.20	.00	2.0	13	4.9	1.9	.27	1.8	3.1	9.8
23	.13	.08	.18	.00	18	13	3.0	.54	.28	1.0	.73	7.2
24	.13	.06	.16	.02	25	7.5	1.8	.38	.27	.45	.43	34
25	.12	.09	.30	.04	15	4.9	1.4	.26	.17	.30	.21	16
26	.20	.13	.25	.06	9.0	3.5	1.2	.22	.05	.13	.09	9.8
27	.21	5.9	.20	.08	4.0	3.3	.94	.18	.00	.05	.08	6.8
28	.21	2.9	.14	.04	2.4	34	1.1	.14	.00	.00	.06	4.8
29	.20	1.3	.10	.00	---	59	1.8	.13	.00	.00	17	4.2
30	.13	.50	.08	.00	---	18	.94	.13	10	.00	2.8	5.5
31	.36	---	.05	.00	---	10	---	.22	---	.00	.77	---
TOTAL	18.48	14.53	5.43	1.91	92.65	307.2	91.03	84.05	69.93	37.02	72.42	741.1
MEAN	.60	.48	.18	.062	3.31	9.91	3.03	2.71	2.33	1.19	2.34	24.7
MAX	11	5.9	.70	.28	25	59	11	39	22	20	18	223
MIN	.05	.04	.05	.00	.00	1.7	.73	.13	.00	.00	.00	1.3
CFSM	.05	.04	.02	.006	.30	.89	.27	.24	.21	.11	.21	2.21
IN.	.06	.05	.02	.01	.31	1.02	.30	.28	.23	.12	.24	2.46

CAL YR 1976 TOTAL 3181.40 MEAN 8.69 MAX 218 MIN .00 CFSM .78 IN 10.57
WTR YR 1977 TOTAL 1535.75 MEAN 4.21 MAX 223 MIN .00 CFSM .38 IN 5.10

05536995 CHICAGO SANITARY AND SHIP CANAL AT ROMEO, IL

LOCATION.--Lat 41°38'26", long 88°03'38", in NE¼NW¼ sec.2, T.36 N., R.10 E., Will County, Hydrologic Unit 07120004, on right downstream side of bridge on 135th Street (Romeoville Road), 900 ft (275 m) west of Romeo, and 1.2 mi (1.9 km) east of Romeoville.

DRAINAGE AREA.--Indeterminate.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: April 1974 to September 1977 (discontinued).

INSTRUMENTATION.--Water-quality monitor since April 1974.

REMARKS.--Interruptions in the record due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 30.5°C Aug. 27, 1976; minimum recorded, 2.0°C Feb. 1, 1977.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	23.0	22.0	22.5	16.0	15.0	15.5	---	---	---	4.5	2.5	3.0
2	24.0	23.0	23.5	16.0	15.0	15.5	---	---	---	2.5	2.5	2.5
3	24.5	24.0	24.0	16.0	15.0	15.5	---	---	---	2.5	2.5	2.5
4	24.5	24.0	24.0	16.0	15.0	15.0	---	---	---	3.0	2.5	2.5
5	24.5	23.0	24.0	15.5	15.0	15.5	---	---	---	3.5	3.0	3.5
6	23.5	22.5	23.0	15.0	14.5	14.5	---	---	---	4.5	4.0	4.5
7	22.5	20.0	21.5	15.0	14.5	14.5	---	---	---	5.0	4.5	5.0
8	20.0	19.5	20.0	15.0	14.0	14.5	---	---	---	5.0	5.0	5.0
9	20.5	19.5	20.0	14.0	13.0	13.5	---	---	---	5.0	4.0	4.5
10	21.0	20.5	20.5	14.0	13.0	13.5	8.5	7.5	7.5	4.0	3.5	3.5
11	22.0	21.0	21.5	13.5	13.5	13.5	8.5	8.5	8.5	---	---	---
12	21.5	21.0	21.0	13.5	13.0	13.5	10.0	8.0	9.0	---	---	---
13	21.5	20.5	21.0	14.0	13.0	13.5	8.0	6.5	7.0	---	---	---
14	21.5	21.0	21.0	13.5	11.5	12.5	6.5	4.5	5.0	---	---	---
15	21.5	20.5	21.0	11.5	10.5	11.0	7.0	5.0	5.5	---	---	---
16	21.5	20.5	21.0	12.5	11.0	11.5	7.0	6.5	7.0	---	---	---
17	20.5	19.5	20.0	12.5	11.5	12.0	7.0	6.5	7.0	---	---	---
18	19.5	18.0	19.0	12.0	11.5	11.5	7.5	7.0	6.0	---	---	---
19	19.0	18.0	18.5	12.0	11.5	11.5	7.5	6.5	7.0	---	---	---
20	18.5	18.0	18.5	12.5	12.0	12.0	7.5	7.0	7.5	---	---	---
21	18.5	17.5	18.0	12.5	12.0	12.0	7.5	6.5	7.0	4.0	3.5	3.5
22	19.0	17.5	18.0	12.5	12.0	12.0	7.0	5.0	6.0	4.0	3.5	3.5
23	18.0	17.5	17.5	12.0	11.0	11.5	6.5	5.0	5.5	4.0	4.0	4.0
24	18.0	17.0	17.5	11.0	10.0	10.5	6.5	4.5	5.5	4.0	4.0	4.0
25	17.5	17.0	17.0	10.5	10.0	10.0	4.5	4.5	4.5	4.5	4.0	4.5
26	18.0	16.5	17.5	11.5	10.5	11.0	4.5	4.5	4.5	4.5	4.0	4.0
27	16.5	16.0	16.5	12.0	11.5	11.5	4.5	4.0	4.5	---	---	---
28	16.5	16.0	16.0	12.0	10.0	11.0	5.0	4.0	4.5	---	---	---
29	16.0	15.0	15.5	---	---	---	5.0	4.5	4.5	---	---	---
30	16.0	15.5	15.5	---	---	---	5.5	5.0	5.0	---	---	---
31	16.0	15.5	17.0	---	---	---	5.0	5.0	5.0	---	---	---
MONTH	24.5	15.0	19.5	16.0	10.0	13.0	10.0	4.0	6.0	5.0	2.5	4.0

05536995 CHICAGO SANITARY AND SHIP CANAL AT ROMEO, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.5	2.0	2.5	3.5	3.5	3.5				---	---	---
2	3.0	2.5	2.5	5.5	3.5	4.0				---	---	---
3	3.5	2.5	3.0	---	---	---				---	---	---
4	4.0	3.5	4.0	---	---	---				---	---	---
5	4.5	4.0	4.0	8.0	6.5	7.0				---	---	---
6	4.0	3.5	4.0	6.5	6.0	6.0				---	---	---
7	3.5	3.5	3.5	6.5	6.0	6.5				---	---	---
8	3.5	2.5	3.0	---	---	---				---	---	---
9	3.5	2.5	3.0	8.0	7.5	8.0				---	---	---
10	4.5	3.5	4.0	10.5	8.5	9.5				19.0	18.5	18.5
11	5.5	4.5	4.5	12.5	10.5	11.5				20.0	18.5	19.0
12	6.0	5.5	5.5	13.5	12.5	12.5				20.5	19.5	20.0
13	6.5	6.0	6.0	14.5	14.0	14.5				21.5	20.0	21.0
14	6.5	6.0	6.0	14.5	13.0	14.0				22.0	21.5	21.5
15	6.0	4.5	5.0	13.0	12.5	12.5				22.5	21.5	22.0
16	4.5	4.5	4.5	13.0	12.5	13.0				23.0	22.0	22.5
17	4.5	4.0	4.5	13.5	13.0	13.0				23.0	22.5	22.5
18	4.5	4.0	4.0	13.5	13.0	13.0				24.0	22.5	23.0
19	5.0	4.5	4.5	13.5	13.5	13.5				24.5	24.0	24.0
20	5.0	5.0	5.0	13.5	12.0	12.5				25.0	24.5	24.5
21	5.0	5.0	5.0	12.0	12.0	12.0				25.5	24.5	25.0
22	5.0	5.0	5.0	12.0	11.0	11.5				24.5	24.0	24.5
23	5.5	5.0	5.0	12.0	10.5	11.0				24.5	24.0	24.0
24	6.5	5.5	6.0	12.0	12.0	12.0				24.0	23.5	23.5
25	5.5	4.5	5.0	---	---	---				25.0	23.5	24.0
26	4.5	4.5	4.5	---	---	---				25.5	24.5	25.0
27	4.5	4.0	4.0	---	---	---				26.0	25.0	25.5
28	4.0	3.5	3.5	---	---	---				26.0	25.0	25.5
29	---	---	---	---	---	---				26.0	25.0	25.5
30	---	---	---	---	---	---				26.0	25.5	26.0
31	---	---	---	---	---	---				25.5	25.0	25.0
MONTH	6.5	2.0	4.5	14.5	3.5	10.5				26.0	18.5	23.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.5	24.0	24.5	23.0	22.0	22.5	28.0	27.5	27.5	28.5	25.5	27.0
2	24.0	23.0	23.5	22.5	22.0	22.0	28.0	27.0	27.5	27.0	24.5	25.0
3	24.0	22.5	23.0	23.0	22.5	23.0	27.0	26.5	27.0	24.5	24.0	24.5
4	24.5	23.5	24.0	24.5	23.0	23.5	28.0	27.0	27.5	25.5	24.5	25.0
5	25.5	23.5	24.5	26.0	24.5	25.5	27.5	26.5	27.0	25.5	24.0	25.0
6	25.0	23.0	23.5	27.0	25.5	26.5	27.0	25.5	26.5	26.0	24.5	25.0
7	23.0	22.5	23.0	28.5	27.0	27.5	26.5	25.5	26.0	26.5	25.0	25.5
8	23.5	23.0	22.5	28.0	27.5	28.0	27.5	25.5	26.0	---	---	---
9	24.5	22.5	23.5	28.5	27.5	28.0	25.5	24.5	25.0	---	---	---
10	23.5	23.0	23.0	28.5	27.5	28.0	25.5	24.0	25.0	---	---	---
11	23.5	20.0	22.0	27.5	26.0	26.5	25.5	24.5	25.0	---	---	---
12	20.0	19.5	19.5	26.5	26.5	26.5	25.0	25.0	25.0	---	---	---
13	19.5	19.0	19.5	28.0	26.5	27.5	24.5	24.5	24.5	---	---	---
14	20.0	19.0	19.5	29.0	28.0	28.5	26.0	24.5	25.5	---	---	---
15	21.5	20.0	21.0	30.0	28.5	29.5	26.0	25.5	25.5	---	---	---
16	23.0	21.5	22.5	30.0	28.5	29.0	26.5	26.0	26.0	---	---	---
17	25.0	23.0	23.5	28.5	27.5	28.0	26.5	26.0	26.5	---	---	---
18	25.5	24.5	25.0	27.5	27.0	27.0	26.5	26.0	26.5	---	---	---
19	25.0	24.0	24.5	27.5	27.0	27.5	26.5	25.5	26.0	---	---	---
20	25.0	23.5	24.5	29.0	27.0	28.5	25.5	25.0	25.0	---	---	---
21	24.5	24.0	24.5	29.0	28.0	28.5	25.0	24.5	24.5	---	---	---
22	25.5	24.0	25.0	29.0	28.5	28.5	25.0	24.5	25.0	---	---	---
23	25.0	24.0	24.5	28.5	28.0	28.0	25.5	25.0	25.0	---	---	---
24	25.5	24.0	24.5	28.0	27.0	27.5	25.5	24.5	25.0	---	---	---
25	25.5	25.0	25.5	27.5	27.0	27.0	25.5	24.5	25.0	---	---	---
26	26.5	25.0	26.0	27.0	26.0	26.5	25.0	24.5	25.0	---	---	---
27	26.5	25.5	26.0	26.5	25.5	26.0	25.5	24.5	25.0	---	---	---
28	26.5	25.5	26.0	26.5	26.0	26.0	26.0	25.0	25.5	---	---	---
29	27.0	25.5	26.5	27.5	26.5	27.0	27.0	25.0	26.0	---	---	---
30	28.0	23.0	25.5	28.5	27.5	28.0	26.5	26.0	26.0	---	---	---
31	---	---	---	28.5	27.5	28.0	26.0	25.0	25.5	---	---	---
MONTH	28.0	19.0	23.5	30.0	22.0	27.0	28.0	24.0	25.5	28.5	24.0	25.5
YEAR	30.0	2.0	17.0									

05537500 LONG RUN NEAR LEMONT, IL

LOCATION.--Lat 41°38'33", long 87°59'57", in SW¼SE¼ sec.32, T.37 N., R.11 E., Cook County, Hydrologic Unit 07120004, on left bank at downstream side of bridge on State Street, 2 mi (3 km) south of Lemont, and at mile 5.40 (8.69 km).

DRAINAGE AREA.--20.9 mi^2 (54.1 km^2).

PERIOD OF RECORD.--July 1951 to current year.

REVISED RECORDS.--WSP 1338: 1952(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 637.20 ft (194.219 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--26 years, 15.5 ft^3/s (0.439 m^3/s), 10.07 in/yr (256 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,160 ft^3/s (89.5 m^3/s) Oct. 10, 1954, gage height, 9.91 ft (3.021 m); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 179 ft^3/s (5.07 m^3/s) Sept. 1, gage height, 4.99 ft (1.521 m), no peak above base of 260 ft^3/s (7.4 m^3/s); minimum daily, 0.02 ft^3/s (0.001 m^3/s) Dec. 30 to Feb. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.50	.10	.02	.02	.60	22	5.2	.39	38	.18	109
2	.22	.50	.10	.02	.02	.90	31	5.2	.33	8.1	.15	128
3	.20	.43	.10	.02	.02	1.1	25	5.7	.25	3.2	.15	54
4	.20	.43	.10	.02	.02	2.5	20	7.5	.21	1.8	.14	36
5	.20	.43	.10	.02	.02	4.8	22	98	.19	1.1	3.6	26
6	5.0	.39	.10	.02	.02	10	16	59	.19	.84	3.9	18
7	1.4	.36	.10	.02	.02	6.2	12	32	.33	.67	1.0	15
8	.54	.33	.10	.02	.02	6.0	11	20	.23	.55	7.5	14
9	.28	.36	.10	.02	.02	6.0	8.8	13	.29	.57	16	15
10	.12	.36	.10	.02	.04	5.8	6.9	9.9	.20	.51	36	14
11	.14	.36	.10	.02	.46	7.0	6.8	7.7	22	.43	27	12
12	.26	.36	.10	.02	1.8	9.6	6.1	6.0	14	.43	20	5.0
13	.26	.36	.10	.02	2.3	9.4	4.2	5.1	5.0	.72	7.7	11
14	.26	.33	.10	.02	1.6	7.0	4.1	4.5	2.7	.46	2.2	13
15	.23	.36	.08	.02	1.4	6.0	4.1	3.9	1.7	.31	1.1	52
16	.21	.30	.08	.02	1.1	3.0	3.6	3.0	1.1	.28	.94	74
17	.19	.15	.08	.02	.18	3.0	3.0	2.3	.86	.36	.98	44
18	.17	.17	.08	.02	.18	9.5	2.5	2.0	9.1	.49	.51	125
19	.19	.15	.10	.02	.18	7.5	2.3	1.7	2.8	1.0	.39	90
20	.23	.14	.10	.02	.18	8.5	22	2.0	1.2	.41	.36	51
21	.30	.14	.10	.02	.18	12	87	1.7	.82	21	.44	35
22	.30	.12	.10	.02	.19	14	54	1.3	.65	3.5	1.6	26
23	.30	.11	.08	.02	2.3	10	35	1.0	.55	1.0	.63	20
24	.36	.10	.08	.02	2.2	7.5	22	.84	.48	.65	.40	120
25	.36	.11	.06	.02	2.0	5.5	17	.69	.31	.48	.34	47
26	.36	.10	.06	.02	1.3	5.0	13	.43	.21	.30	.28	26
27	.33	.10	.06	.02	.90	4.3	9.7	.39	.18	.21	.31	18
28	.30	.10	.04	.02	.70	21	8.6	.30	.17	.15	1.4	14
29	.33	.10	.04	.02	---	91	8.4	.30	.15	.19	29	11
30	.36	.10	.02	.02	---	51	6.5	.28	19	.26	5.6	9.4
31	.46	---	.02	.02	---	34	---	.43	---	.23	2.1	---
TOTAL	14.31	7.85	2.58	.62	19.37	369.70	494.6	301.36	85.59	88.20	171.90	1232.4
MEAN	.46	.26	.083	.020	.69	11.9	16.5	9.72	2.85	2.85	5.55	41.1
MAX	5.0	.50	.10	.02	2.3	91	87	98	22	38	36	128
MIN	.12	.10	.02	.02	.02	.60	2.3	.28	.15	.15	.14	5.0
CFSM	.02	.01	.004	.001	.03	.57	.79	.47	.14	.14	.27	1.97
IN.	.03	.01	.00	.00	.03	.66	.88	.54	.15	.16	.31	2.19

CAL YR 1976 TOTAL 5473.04 MEAN 15.0 MAX 309 MIN .02 CFSM .72 IN 9.74
WTR YR 1977 TOTAL 2788.48 MEAN 7.64 MAX 128 MIN .02 CFSM .37 IN 4.96

05538010 DES PLAINES RIVER AT ROCKDALE, IL

LOCATION.--Lat 41°30'14", long 88°06'05", in SE¼NE¼ sec.20, T.35 N., R.10 E., Will County, Hydrologic Unit 07120004, on left upstream side of Brandon Lock at Brandon Lock and Dam, 0.4 mi (0.6 km) east of Rockdale, 0.4 mi (0.6 km) south of Joliet, and at mile 13.22 (21.27 km).

DRAINAGE AREA.--1,506 mi² (3,901 km²).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: April 1974 to September 1977 (discontinued).

INSTRUMENTATION.--Water-quality monitor since April 1974.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 33.0°C July 16, 1977; minimum, 1.0°C Jan. 28-31, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 33.0°C July 16; minimum, 1.0°C Jan. 28-31.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.5	22.0	22.5	17.0	16.5	16.5	8.5	8.0	8.5	4.0	3.0	4.0
2	24.0	22.5	23.0	17.0	16.0	16.5	9.0	7.5	8.0	3.0	2.5	2.5
3	25.0	23.5	24.5	17.0	16.0	17.0	9.5	9.0	9.0	2.5	2.5	2.5
4	25.5	24.5	25.0	16.5	15.5	16.0	9.5	9.0	9.5	3.5	2.5	3.0
5	26.5	25.0	26.0	16.0	15.0	15.5	9.5	8.0	9.0	4.0	3.0	3.5
6	26.5	23.5	24.0	16.0	15.0	15.5	8.5	8.0	8.0	4.5	4.0	4.0
7	23.5	22.0	23.0	16.0	14.5	15.5	8.0	7.5	7.5	4.5	4.0	4.0
8	23.0	22.0	22.5	15.0	14.0	14.5	8.0	7.5	8.0	5.0	4.0	4.5
9	22.5	21.5	22.0	15.0	14.5	15.0	9.0	7.5	8.0	3.0	2.5	3.0
10	22.0	21.0	21.5	15.0	14.5	15.0	9.0	8.0	8.5	3.0	2.5	2.5
11	23.5	21.0	22.5	14.5	13.0	13.5	8.5	7.5	8.0	3.0	2.0	2.5
12	23.5	23.0	23.5	13.0	12.5	13.0	8.5	8.0	8.0	3.5	2.0	3.0
13	24.0	23.5	24.0	12.5	12.0	12.5	8.5	7.5	8.0	3.5	3.0	3.5
14	24.0	23.0	23.5	13.0	12.5	12.5	7.0	6.5	7.0	4.0	3.5	4.0
15	23.0	22.0	22.5	12.5	12.0	12.5	6.5	6.0	6.5	4.5	3.5	4.0
16	22.5	22.0	22.0	12.0	11.0	11.5	7.0	6.5	6.5	4.0	3.0	3.5
17	22.5	21.0	22.0	12.5	11.5	12.0	7.5	7.0	7.0	3.0	2.0	2.5
18	22.5	20.5	21.5	12.5	12.0	12.5	7.5	7.5	7.5	2.5	1.5	2.0
19	21.5	19.5	20.5	12.5	12.5	12.5	8.0	7.5	7.5	3.5	2.0	2.5
20	21.5	19.5	20.5	12.5	12.0	12.0	8.0	6.0	7.0	4.0	2.5	3.0
21	20.0	18.5	19.5	12.0	12.0	12.0	6.5	6.0	6.5	4.0	3.0	3.5
22	20.0	19.0	19.5	12.0	11.5	11.5	6.5	6.0	6.5	4.0	3.0	3.5
23	19.5	19.0	19.0	11.5	11.0	11.5	6.5	5.0	5.5	3.5	3.0	3.5
24	19.5	17.5	19.0	12.0	11.5	12.0	7.0	5.0	6.0	4.5	3.5	4.0
25	18.0	17.0	17.5	11.5	11.0	11.5	6.5	4.5	5.5	4.5	4.0	4.5
26	18.0	17.0	17.5	11.5	11.0	11.5	4.5	4.0	4.5	4.5	3.5	4.0
27	18.5	17.0	18.0	11.5	9.5	11.0	4.5	4.0	4.0	3.5	3.0	3.0
28	19.0	18.5	18.5	10.0	9.0	9.5	5.0	4.0	4.5	3.0	1.0	2.0
29	19.0	16.0	18.0	9.5	8.5	9.0	4.5	4.0	4.0	1.5	1.0	1.5
30	17.5	16.0	17.0	8.5	8.0	8.5	5.0	4.0	4.5	1.5	1.0	1.0
31	17.5	16.5	17.0	---	---	---	4.5	4.0	4.5	2.0	1.0	1.5
MONTH	26.5	16.0	21.0	17.0	8.0	13.0	9.5	4.0	7.0	5.0	1.0	3.0

05538010 DES PLAINES RIVER AT ROCKDALE, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.0	1.5	1.5	4.0	3.5	4.0	14.0	12.5	13.0	20.0	19.0	19.5
2	2.5	2.0	2.5	6.0	4.0	5.0	15.0	14.0	14.5	19.5	18.5	19.0
3	3.5	2.5	3.0	6.5	5.5	6.0	15.0	14.0	14.0	20.0	18.5	19.5
4	4.0	3.5	3.5	8.5	6.5	8.0	15.5	13.5	14.5	21.0	20.0	20.5
5	3.5	3.0	3.0	8.5	6.5	7.5	13.5	11.5	12.5	21.5	20.5	20.5
6	3.5	3.0	3.0	8.5	7.0	8.0	12.0	11.5	12.0	22.0	20.0	21.0
7	3.0	2.5	2.5	8.0	6.5	7.5	13.0	11.5	12.5	20.0	19.5	20.0
8	3.5	3.0	3.5	9.0	7.5	8.5	13.5	12.5	12.5	20.5	19.0	19.5
9	3.5	3.0	3.5	10.0	9.0	9.5	13.5	13.0	13.5	19.5	18.0	19.0
10	5.0	3.5	4.0	11.0	9.5	10.5	16.0	13.5	15.0	20.0	18.5	19.5
11	6.0	4.5	5.5	14.0	11.5	13.0	16.5	16.0	16.0	21.0	19.5	20.5
12	6.5	6.0	6.0	15.5	13.5	14.5	18.5	16.0	17.5	21.0	20.5	21.0
13	6.0	6.0	6.0	14.5	14.0	14.0	18.5	18.0	18.5	22.0	21.0	21.5
14	6.0	5.5	6.0	15.5	14.5	15.0	19.5	18.0	18.5	23.0	22.0	22.5
15	6.0	5.0	5.5	16.5	15.5	16.0	20.0	19.0	19.5	23.5	23.0	23.0
16	5.0	4.5	4.5	16.0	15.0	15.5	21.0	19.5	20.5	23.5	23.0	23.0
17	5.0	4.0	4.5	15.0	14.0	14.5	21.5	20.5	21.0	25.0	23.0	24.0
18	6.0	5.0	5.5	15.0	13.5	14.5	22.0	21.0	21.5	25.5	25.0	25.0
19	5.5	5.5	5.5	14.0	12.5	13.0	22.0	21.5	22.0	26.5	25.0	25.5
20	6.0	5.5	6.0	14.0	12.5	13.5	22.0	21.0	21.5	26.5	25.0	26.0
21	6.0	5.5	5.5	13.0	11.0	12.0	22.0	20.5	21.0	27.0	26.0	26.5
22	7.0	5.5	6.5	13.5	11.0	12.0	20.0	19.0	19.5	27.0	25.5	26.5
23	7.0	6.5	7.0	13.5	11.5	12.0	19.5	18.0	19.0	26.5	25.5	26.0
24	7.5	6.5	7.0	12.5	11.5	12.0	19.5	18.5	19.0	27.0	26.5	27.0
25	7.5	5.5	6.5	13.5	12.0	13.0	19.0	18.0	18.5	27.5	26.0	26.5
26	5.5	5.0	5.0	14.0	13.0	13.5	19.0	18.5	18.5	27.0	26.0	26.5
27	5.0	4.5	5.0	15.0	13.5	14.0	19.0	18.5	19.0	27.5	26.5	27.0
28	5.0	4.0	4.5	16.0	14.5	15.0	19.0	18.0	18.5	27.5	27.0	27.0
29	---	---	---	14.5	14.0	14.0	19.5	18.0	18.5	27.0	26.5	27.0
30	---	---	---	14.5	13.5	14.0	20.0	19.5	20.0	27.5	26.0	27.0
31	---	---	---	13.0	12.5	12.5	---	---	---	27.0	26.5	27.0
MONTH	7.5	1.5	4.5	16.5	3.5	11.5	22.0	11.5	17.5	27.5	18.0	23.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.5	25.0	25.5	25.0	23.5	24.0	29.5	28.5	29.0	27.5	25.5	26.5
2	25.5	24.0	24.5	24.0	23.0	23.5	30.5	28.0	29.0	25.0	24.0	24.5
3	24.5	23.5	24.0	24.0	23.5	23.5	30.5	29.0	29.5	24.5	24.0	24.0
4	25.0	24.0	24.5	26.0	24.0	25.0	30.5	28.5	29.0	26.0	24.0	24.5
5	26.0	24.5	25.0	28.0	26.0	26.5	29.5	27.5	28.5	26.5	25.0	26.0
6	25.0	24.0	24.5	28.5	27.0	27.5	28.5	27.5	28.0	26.5	25.5	26.0
7	24.5	24.0	24.0	30.0	28.5	29.0	28.5	27.0	27.5	27.5	25.5	26.5
8	24.5	24.0	24.0	30.5	29.5	30.0	29.0	27.0	27.5	28.0	27.0	27.5
9	24.5	22.5	23.5	30.5	28.5	29.5	27.5	26.5	27.0	27.5	26.5	27.0
10	24.0	22.5	23.5	30.0	28.5	29.0	27.5	25.5	26.5	27.5	26.5	27.0
11	24.5	22.5	23.5	30.0	28.5	29.5	28.5	25.5	26.5	27.5	26.5	27.0
12	23.5	20.0	22.0	30.0	29.0	29.5	26.5	25.0	25.5	27.0	26.0	26.5
13	20.5	19.5	20.0	30.5	28.5	29.5	27.5	26.5	27.0	27.0	23.5	24.5
14	21.5	19.5	20.5	31.0	29.5	30.0	27.5	26.5	27.0	25.0	23.0	24.5
15	22.5	21.0	22.0	32.5	31.0	32.0	28.0	26.5	27.5	25.0	22.0	23.5
16	24.0	22.5	23.0	33.0	30.0	31.5	30.0	28.0	28.5	23.0	22.0	22.5
17	25.5	24.0	24.5	31.0	29.5	30.0	28.0	27.5	27.5	22.5	22.0	22.0
18	25.0	24.5	25.0	30.5	29.0	29.5	29.0	28.0	28.5	22.5	21.5	22.0
19	27.0	25.0	26.0	30.5	28.0	29.5	28.5	27.0	28.0	23.0	22.0	23.0
20	26.5	26.0	26.5	31.5	30.5	31.0	27.5	26.0	27.0	23.0	22.0	22.5
21	26.5	26.0	26.0	31.0	29.5	30.0	26.5	25.5	26.0	23.5	21.5	22.5
22	26.5	26.0	26.5	31.5	29.5	30.5	26.0	25.0	25.5	24.0	22.5	23.5
23	26.5	25.5	26.0	31.0	30.5	31.0	26.5	25.5	26.0	24.0	22.0	23.5
24	27.0	26.0	26.5	31.5	29.0	30.5	27.0	25.0	26.5	25.0	23.0	24.0
25	27.5	26.0	26.5	29.0	27.5	28.0	26.5	25.5	26.0	23.5	23.0	23.5
26	27.5	26.0	26.5	30.0	27.5	28.5	27.5	26.0	27.0	23.0	21.5	22.0
27	28.0	27.0	27.5	29.0	28.5	29.0	27.5	27.0	27.0	22.5	22.0	22.0
28	28.0	27.5	28.0	29.0	28.5	28.5	28.5	26.5	27.5	22.5	22.0	22.0
29	27.5	26.5	27.0	30.0	28.0	28.5	28.0	26.0	26.5	23.0	22.0	22.5
30	27.5	25.5	26.5	29.0	27.0	28.5	29.0	26.5	28.0	23.5	22.0	23.0
31	---	---	---	30.0	28.5	29.5	27.0	26.5	27.0	---	---	---
MONTH	28.0	19.5	25.0	33.0	23.0	29.0	30.5	25.0	27.5	28.0	21.5	24.0
YEAR	33.0	1.0	17.5									

05539000 HICKORY CREEK AT JOLIET, IL

LOCATION.--Lat 41°31'10", long 88°04'10", in SW¼NE¼ sec.15, T.35 N., R.10 E., Will County, Hydrologic Unit 07120004, on right bank at Third Avenue in Joliet, 0.2 mi (0.3 km) downstream from Spring Creek, and at mile 2.02 (3.25 km).

DRAINAGE AREA.--107 mi^2 (277 km^2).

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 526.00 ft (160.325 m) above mean sea level. Prior to Oct. 9, 1946, nonrecording gage at same site at datum 1.00 ft (0.305 m) higher. Oct. 9, 1946, to Sept. 30, 1974, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--33 years, 81.1 ft^3/s (2.297 m^3/s), 10.29 in/yr (261 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,200 ft^3/s (430 m^3/s) July 13, 1957, gage height, 13.77 ft (4.197 m), present datum, from rating curve extended above 6,300 ft^3/s (178 m^3/s); minimum, 0.5 ft^3/s (0.014 m^3/s) Aug. 9, 16, 19, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,290 ft^3/s (36.5 m^3/s) Sept. 1, gage height, 4.27 ft (1.301 m), no peak above base of 2,000 ft^3/s (57 m^3/s); minimum daily, 4.5 ft^3/s (0.13 m^3/s) Dec. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	12	8.5	5.2	5.6	7.0	120	20	4.8	266	6.1	963
2	9.7	11	8.0	5.2	5.4	6.0	100	18	5.2	78	6.1	573
3	9.1	9.9	7.6	5.2	5.2	8.0	100	17	4.8	37	6.6	227
4	8.6	9.9	7.2	5.4	5.0	20	90	18	4.8	22	9.3	141
5	12	9.9	7.0	5.4	4.8	78	105	140	21	15	5.6	82
6	33	9.9	7.0	5.4	4.7	35	90	130	20	11	5.2	64
7	26	9.3	7.4	5.4	4.8	31	80	90	12	8.2	5.2	52
8	15	9.9	7.0	5.4	5.0	30	67	58	8.7	7.6	22	45
9	12	9.9	7.0	5.4	5.3	40	60	46	7.1	11	31	41
10	11	11	7.4	5.6	8.0	44	52	28	7.1	13	30	38
11	9.3	12	6.8	5.2	15	36	48	21	121	11	24	35
12	8.7	13	6.5	5.2	22	54	45	18	109	23	17	36
13	8.2	15	6.8	5.2	26	90	44	16	46	24	12	40
14	8.2	14	7.0	5.2	16	54	42	15	28	15	9.3	72
15	8.2	11	7.2	5.2	12	40	40	14	20	11	8.2	110
16	8.2	8.7	6.5	5.0	10	31	38	14	14	7.6	8.7	190
17	8.7	8.7	6.8	5.0	9.0	26	35	8.0	13	9.3	7.6	170
18	8.7	8.7	7.4	5.0	8.2	46	34	7.0	33	13	6.6	240
19	9.9	8.7	8.2	5.0	8.0	60	36	12	29	21	6.1	200
20	9.9	8.7	11	5.0	7.8	51	130	11	19	12	9.3	170
21	12	8.7	8.6	5.0	7.8	85	270	11	13	20	15	150
22	15	8.7	6.8	5.0	9.4	83	140	12	11	13	15	110
23	11	11	6.0	4.8	23	111	70	13	9.9	9.9	11	84
24	9.9	16	5.2	4.8	27	90	45	10	9.3	9.3	11	110
25	9.9	8.7	4.7	5.0	22	62	35	8.0	8.7	9.9	8.2	200
26	9.9	9.7	4.5	5.2	15	48	28	7.0	7.1	9.3	7.6	210
27	9.3	15	5.0	5.0	10	41	24	7.1	6.6	9.3	7.1	140
28	9.3	21	5.2	5.4	8.5	60	23	7.1	6.1	9.3	21	100
29	9.3	13	5.0	5.8	---	100	22	6.6	6.1	9.9	46	75
30	11	9.5	4.7	6.2	---	90	21	6.1	146	7.1	31	60
31	11	---	4.7	6.0	---	70	---	5.6	---	8.2	16	---
TOTAL	352.0	332.5	208.7	162.8	310.5	1627.0	2034	794.5	751.3	730.9	424.8	4728
MEAN	11.4	11.1	6.73	5.25	11.1	52.5	67.8	25.6	25.0	23.6	13.7	158
MAX	33	21	11	6.2	27	111	270	140	146	266	46	963
MIN	8.2	8.7	4.5	4.8	4.7	6.0	21	5.6	4.8	7.1	5.2	35
CFSM	.11	.10	.06	.05	.10	.49	.63	.24	.23	.22	.13	1.48
IN.	.12	.12	.07	.06	.11	.57	.71	.28	.26	.25	.15	1.64

CAL YR 1976 TOTAL 35813.6 MEAN 97.9 MAX 2500 MIN 4.5 CFSM .92 IN 12.45
WTR YR 1977 TOTAL 12457.0 MEAN 34.1 MAX 963 MIN 4.5 CFSM .32 IN 4.33

05539670 DES PLAINES RIVER AT CHANNAHON, IL

LOCATION.--Lat 41°25'25", long 88°11'39", in SW¼SW¼ sec.15, T.34 N., R.9 E., Will County, Hydrologic Unit 07120004, at bridge on Interstate 55 (old U.S. 66), 1.5 mi (2.4 km) east of Channahon and at mile 278 (447 km).

DRAINAGE AREA.--1,711 mi² (4,431 km²).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: April 1973 to September 1977 (discontinued).

INSTRUMENTATION.--Water-quality monitor since April 1973.

REMARKS.--No record Oct. 1-6 due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES (Feb.-Sept. 1973, water years 1975-77): Maximum, 34.0°C Aug. 13, 18, 1973; minimum, 0.0°C on several days during the 1975 and 1977 winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 31.5°C July 16; minimum, 0.0°C on several days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	15.0	13.0	14.0	7.5	4.5	6.0	3.0	1.0	2.5
2	---	---	---	15.0	13.0	14.0	7.5	4.5	6.0	3.0	0.5	1.5
3	---	---	---	15.5	13.5	14.0	7.5	5.5	6.0	2.0	0.5	1.5
4	---	---	---	13.5	12.0	13.0	9.5	7.0	8.0	3.0	0.5	2.0
5	---	---	---	14.0	12.5	13.0	8.5	7.0	8.0	4.0	1.5	3.0
6	---	---	---	13.5	12.0	12.5	8.5	6.0	7.0	3.0	1.0	2.0
7	21.0	19.5	20.5	13.0	11.5	12.5	7.0	5.0	6.0	4.0	1.0	2.5
8	22.5	19.5	20.5	12.0	10.0	12.0	7.0	4.5	5.5	3.5	1.5	2.5
9	22.0	19.0	20.5	13.5	10.0	12.0	8.0	4.5	6.5	2.5	0.5	2.0
10	22.0	18.0	20.0	13.0	10.0	11.5	7.5	5.0	6.5	3.0	1.0	2.0
11	19.5	17.5	19.0	13.0	10.0	12.0	6.0	4.0	5.0	1.5	0.0	1.0
12	20.0	17.5	19.0	13.0	9.5	11.0	7.0	4.5	5.5	3.0	0.5	1.5
13	21.0	20.0	20.5	11.5	9.0	10.0	6.0	3.0	4.5	2.0	0.0	1.0
14	21.5	19.0	20.0	11.0	8.0	9.0	7.0	3.0	5.5	5.0	1.5	3.0
15	19.5	18.5	19.0	11.0	8.5	10.0	7.5	4.0	5.5	4.0	2.0	3.0
16	19.5	16.5	18.5	12.0	8.5	10.0	6.5	4.5	5.5	2.0	1.0	1.5
17	19.0	18.0	18.5	10.5	8.5	9.0	7.5	5.5	6.0	1.5	0.5	1.0
18	18.0	17.0	17.5	11.5	7.0	9.5	8.5	4.5	6.5	3.5	1.5	2.0
19	17.0	16.5	17.0	11.5	9.0	10.5	7.5	4.5	6.5	2.5	1.0	1.5
20	17.0	15.0	16.5	12.0	9.5	11.0	7.0	4.5	6.0	4.0	0.5	2.5
21	16.0	14.5	15.5	10.5	9.0	10.0	5.0	1.5	3.5	5.0	2.0	3.5
22	15.5	14.0	15.0	9.5	7.5	8.5	5.0	1.5	3.5	5.0	1.0	3.0
23	15.5	14.5	15.0	9.0	6.0	7.5	5.5	2.5	4.5	1.5	1.0	1.5
24	17.0	15.5	16.0	10.0	6.5	8.0	4.5	0.0	2.5	3.5	1.5	2.5
25	16.5	15.5	16.0	12.5	8.5	10.5	6.0	3.5	4.5	5.5	3.0	4.0
26	17.5	14.5	15.5	13.0	10.0	12.0	5.0	3.0	4.0	4.0	1.5	2.5
27	16.0	13.5	14.5	11.0	6.5	9.0	4.0	2.0	3.0	3.0	0.0	1.5
28	16.0	13.0	14.5	8.5	5.5	7.5	4.5	2.5	3.0	1.0	0.0	0.5
29	14.5	13.0	14.0	6.0	3.5	5.0	3.0	0.0	2.0	0.5	0.0	0.0
30	15.0	13.0	14.5	6.0	3.0	4.5	3.5	0.0	2.0	1.0	0.5	1.0
31	15.5	14.5	15.0	---	---	---	2.5	0.5	2.0	1.5	0.5	1.0
MONTH	22.5	13.0	17.5	15.5	3.0	10.5	9.5	0.0	5.0	5.5	0.0	2.0

05539670 DES PLAINES RIVER AT CHANNAHON, Il--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	1.0	2.0	8.0	3.0	5.0	14.0	11.5	13.0	19.0	18.5	18.5
2	2.0	0.0	1.5	7.0	3.0	5.5	16.5	14.0	15.0	19.5	19.0	19.0
3	4.0	0.5	2.5	9.0	6.5	8.0	17.5	12.5	14.5	20.0	18.5	19.0
4	4.0	2.0	3.0	8.5	6.5	7.5	14.5	13.5	14.0	23.0	19.5	20.0
5	5.0	2.5	3.5	8.0	6.0	7.0	13.5	9.5	12.5	23.5	21.5	22.5
6	4.5	2.0	3.0	8.5	4.5	6.5	14.0	10.0	11.5	22.5	22.0	22.5
7	4.0	2.0	2.5	11.5	6.0	8.5	16.0	10.5	13.0	22.0	21.0	22.0
8	3.5	0.5	2.0	13.5	6.5	10.5	14.0	11.0	12.5	22.0	20.5	21.0
9	6.0	1.5	3.5	14.5	10.0	12.0	15.5	12.0	13.5	21.0	20.0	20.5
10	7.5	3.5	5.0	15.5	10.0	12.5	15.0	13.0	14.0	21.0	19.5	20.0
11	8.5	4.5	6.5	15.0	12.0	13.5	17.5	15.0	16.0	21.5	20.0	21.0
12	7.0	6.5	7.0	15.0	13.0	13.5	21.0	16.0	18.5	22.0	21.0	21.5
13	7.5	6.0	6.5	14.0	12.5	13.0	19.0	17.5	18.5	22.0	21.5	22.0
14	6.5	5.0	5.5	16.5	13.0	14.5	23.0	17.5	20.5	23.0	22.0	22.5
15	8.5	4.5	6.0	18.5	14.0	15.5	22.5	18.0	20.0	23.5	22.5	23.0
16	8.0	2.5	5.5	16.5	12.5	14.5	22.0	19.0	21.0	24.0	23.5	23.5
17	6.0	1.5	4.0	14.0	12.5	13.5	24.0	21.0	22.0	24.5	24.0	24.0
18	8.0	5.0	6.5	13.0	12.5	13.0	22.5	21.0	22.0	25.0	24.5	24.5
19	6.5	4.5	6.0	13.0	11.5	12.0	21.5	21.0	21.0	26.0	25.0	25.5
20	8.0	4.5	6.0	12.5	11.5	12.0	23.5	20.5	21.5	26.0	25.5	26.0
21	6.0	3.0	4.5	13.0	11.0	12.0	23.0	21.0	21.5	26.0	26.0	26.0
22	8.5	3.5	6.5	12.5	10.0	11.0	21.5	20.0	20.5	26.0	26.0	26.0
23	9.5	7.5	8.5	15.5	10.0	12.0	19.5	18.5	19.0	26.0	25.5	26.0
24	8.5	5.5	7.0	14.0	10.0	12.0	19.5	19.0	19.0	27.0	26.0	26.5
25	8.0	5.5	6.5	15.5	10.0	12.5	19.0	18.0	18.5	27.0	26.5	27.0
26	6.5	4.5	5.5	15.5	10.5	13.0	18.5	17.5	18.0	27.0	27.0	27.0
27	6.5	4.5	5.0	15.0	12.5	14.0	19.0	18.0	18.5	27.0	27.0	27.0
28	7.0	4.0	5.5	16.5	14.5	15.0	19.0	18.0	18.5	27.5	27.0	27.0
29	---	---	---	16.0	14.5	15.0	18.0	17.0	17.5	28.0	27.5	27.5
30	---	---	---	16.5	14.0	15.0	18.5	17.5	18.0	28.0	27.5	27.5
31	---	---	---	14.0	11.5	12.5	---	---	---	27.5	27.5	27.5
MONTH	9.5	0.0	5.0	18.5	3.0	11.5	24.0	9.5	17.5	28.0	18.5	23.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	27.5	26.5	27.0	28.0	27.5	27.5	28.5	28.0	28.0	28.0	26.5	26.5
2	27.0	26.0	26.5	28.0	26.5	27.5	28.0	28.0	28.0	26.0	24.5	25.5
3	26.0	25.5	25.5	27.5	27.0	27.5	28.0	27.5	28.0	26.0	24.0	25.0
4	26.0	25.5	26.0	28.5	27.5	27.5	28.0	28.0	28.0	26.0	24.0	25.0
5	26.5	26.5	26.5	29.0	28.0	28.5	28.0	27.5	28.0	26.5	24.5	25.5
6	26.5	26.5	26.5	29.5	29.0	29.0	28.0	27.5	27.5	27.0	24.0	25.5
7	26.5	26.0	26.0	30.0	29.5	29.5	27.5	27.5	27.5	28.0	24.5	26.0
8	26.5	25.5	26.0	30.5	30.0	30.0	27.5	27.5	27.5	28.0	25.0	26.5
9	26.0	25.5	25.5	30.5	30.0	30.0	27.5	26.0	27.0	27.0	24.5	26.5
10	25.5	25.5	25.5	30.0	29.5	30.0	27.0	25.0	26.5	27.0	24.0	25.5
11	26.0	25.0	25.5	30.0	29.5	29.5	26.5	24.5	25.5	27.5	25.0	26.0
12	26.0	25.5	25.5	30.0	29.5	29.5	26.5	24.5	25.5	26.5	25.0	25.5
13	25.5	25.0	25.0	30.5	30.0	30.0	26.5	24.0	25.5	26.0	24.5	25.5
14	25.0	24.5	25.0	30.0	30.0	30.0	27.0	25.5	26.5	25.0	23.5	24.0
15	25.5	25.0	25.0	30.5	30.0	30.5	28.0	25.5	27.0	24.0	23.0	24.0
16	26.0	25.5	25.5	31.5	30.5	30.5	28.5	26.0	27.5	23.0	22.0	22.5
17	27.0	26.0	26.5	31.0	30.5	30.5	28.5	26.0	27.0	23.5	22.0	22.5
18	27.0	26.5	27.0	30.5	30.0	30.0	28.0	24.5	26.5	22.5	21.5	22.0
19	27.0	26.5	27.0	30.0	29.5	30.0	28.0	26.0	26.5	22.0	21.0	21.5
20	27.0	27.0	27.0	30.5	30.0	30.5	28.0	25.5	27.0	22.0	21.0	21.5
21	27.5	27.0	27.0	30.5	30.5	30.5	27.0	25.5	26.5	22.0	20.0	21.0
22	27.5	27.5	27.5	30.5	30.0	30.0	27.0	24.5	25.5	22.0	21.0	21.5
23	27.5	27.0	27.0	30.5	29.5	30.0	27.5	25.0	26.5	23.0	21.5	22.5
24	28.0	27.5	27.5	30.0	29.5	30.0	28.5	25.0	26.5	24.0	22.5	23.0
25	28.0	28.0	28.0	30.0	29.5	29.5	27.5	25.0	26.5	22.5	20.5	22.0
26	28.0	28.0	28.0	29.5	29.0	29.0	28.0	25.5	27.0	22.5	21.0	22.0
27	28.0	28.0	28.0	29.0	28.0	28.5	28.0	26.5	27.5	22.0	19.5	20.5
28	28.5	28.0	28.5	28.5	28.0	28.0	28.5	27.0	27.5	23.5	19.5	21.5
29	28.5	28.0	28.5	28.0	28.0	28.0	28.5	26.5	27.5	21.5	20.0	21.5
30	28.0	27.5	28.0	28.5	28.0	28.5	30.0	27.0	28.0	24.0	20.5	22.0
31	---	---	---	28.5	28.5	28.5	30.0	27.0	28.5	---	---	---
MONTH	28.5	24.5	26.5	31.5	26.5	29.5	30.0	24.0	27.0	28.0	19.5	23.5
YEAR	31.5	0.0	16.5									

05539900 WEST BRANCH DU PAGE RIVER NEAR WEST CHICAGO, IL

LOCATION.--Lat 41°54'39", long 88°10'44", in SE¼NW¼ sec.35, T.40 N., R.9 E., Du Page County, Hydrologic Unit 07120004, on left bank at downstream side of bridge on State Highway 64, 2 mi (3 km) northeast of West Chicago, and at mile 49.14 (79.07 km).

DRAINAGE AREA.--28.5 mi² (73.8 km²).

PERIOD OF RECORD.--July 1961 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 717.76 ft (218.773 m) above mean sea level.

REMARKS.--Records poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--16 years, 28.2 ft³/s (0.799 m³/s), 13.44 in/yr (341 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 805 ft³/s (22.8 m³/s), revised, June 10, 1967, gage height, 10.36 ft (3.158 m); minimum, 0.2 ft³/s (0.006 m³/s) July 1, 5, 8-12, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 158 ft³/s (4.47 m³/s) Mar. 29, gage height, 6.42 ft (1.957 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Oct. 16.

REVISIONS.--The maximum discharges for the water years 1966 and 1967 have been revised to 537 ft³/s (15.2 m³/s) May 12, 1966, gage height, 9.09 ft (2.771 m), and 805 ft³/s (22.8 m³/s) June 10, 1967, gage height, 10.36 ft (3.158 m), superseding figures published in WSP 2115.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	8.8	8.6	8.5	7.2	11	30	23	9.0	72	11	38
2	10	8.4	8.6	8.4	7.4	14	44	24	11	29	7.8	47
3	9.8	8.5	8.6	8.2	8.0	30	33	25	7.0	18	11	30
4	10	8.4	8.8	8.4	8.7	52	30	24	7.2	18	12	24
5	11	5.1	8.5	8.6	9.0	40	43	82	13	18	36	22
6	18	8.7	8.8	8.6	8.6	21	28	51	18	18	23	20
7	10	9.0	8.8	7.6	8.0	15	25	35	12	14	19	16
8	8.6	8.8	8.6	8.2	7.7	14	23	28	8.5	17	67	14
9	3.5	9.0	8.6	8.0	9.0	13	22	25	11	16	70	14
10	8.0	9.0	8.8	7.9	11	14	18	24	9.2	12	31	14
11	8.4	8.9	8.9	7.6	12	13	16	19	30	8.3	37	13
12	8.1	8.9	8.8	7.3	16	27	16	21	26	13	41	18
13	8.8	9.0	9.0	7.9	22	26	13	16	16	17	22	40
14	8.6	9.2	9.3	8.1	18	14	12	14	9.4	14	18	47
15	9.2	9.3	9.2	7.9	15	11	6.1	18	9.0	16	17	39
16	2.1	9.3	9.0	7.6	11	11	12	33	11	9.9	19	56
17	8.4	9.4	9.0	7.0	10	9.9	18	22	19	14	24	31
18	9.4	9.3	9.2	7.2	9.6	14	16	19	9.2	20	14	50
19	10	9.4	9.0	7.8	9.1	13	31	16	9.7	26	13	43
20	10	9.4	9.3	8.3	8.3	14	104	13	9.2	17	11	31
21	8.2	9.3	8.9	8.6	7.9	25	79	12	9.0	9.7	14	24
22	8.5	9.2	9.0	9.0	9.0	26	76	13	7.4	13	12	22
23	8.8	9.3	9.0	9.2	14	28	45	12	7.4	12	12	21
24	8.6	9.4	9.2	9.4	35	20	36	13	19	13	17	45
25	8.4	9.5	9.0	9.3	24	14	33	9.0	18	20	12	45
26	8.1	9.6	8.9	9.0	16	13	32	9.2	15	10	12	109
27	8.2	11	8.9	8.2	13	12	29	13	9.4	10	16	72
28	8.2	8.8	8.8	7.9	12	41	41	10	9.0	11	15	35
29	8.1	8.2	8.8	7.7	---	126	40	9.7	9.2	15	29	28
30	8.2	8.5	8.6	7.5	---	70	31	7.2	30	13	22	24
31	10	---	8.7	7.3	---	43	---	7.0	---	11	14	---
TOTAL	271.4	268.6	275.2	252.2	346.5	794.9	982.1	647.1	387.8	524.9	678.8	1032
MEAN	8.75	8.95	8.88	8.14	12.4	25.6	32.7	20.9	12.9	16.9	21.9	34.4
MAX	18	11	9.3	9.4	35	126	104	82	30	72	70	109
MIN	2.1	5.1	8.5	7.0	7.2	9.9	6.1	7.0	7.0	8.3	7.8	13
CFSM	.31	.31	.31	.29	.44	.90	1.15	.73	.45	.59	.77	1.21
IN.	.35	.35	.36	.33	.45	1.04	1.28	.84	.51	.69	.89	1.35

CAL YR 1976 TOTAL 11229.7 MEAN 30.7 MAX 466 MIN 2.1 CFSM 1.08 IN 14.66
WTR YR 1977 TOTAL 6461.5 MEAN 17.7 MAX 126 MIN 2.1 CFSM .62 IN 8.43

05540095 WEST BRANCH DU PAGE RIVER NEAR WARRENVILLE, IL

LOCATION.--Lat 41°49'22", long 88°10'23", in SW¼NE¼ sec.35, T.39 N., R.9 E., Du Page County, Hydrologic Unit 07120004, on right bank 400 ft (122 m) upstream from Warrenville Forest Preserve Dam in Warrenville, 0.6 mi (1.0 km) downstream from Spring Brook, and at mile 38.95 (62.67 km).

DRAINAGE AREA.--90.4 mi² (234.1 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1968 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage reco[illegible] masonry dam. Datum of gage is 688.59 ft (209.882 m) above mean sea level (Illinois Department of Transportation bench mark).

REMARKS.--Water-discharge records fair except those for period of no gage-height record, Dec. 1 to Mar. 17, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--9 years, 92.4 ft³/s (2.617 m³/s), 13.88 in/yr (353 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft³/s (56.1 m³/s) Aug. 26, 1972, gage height, 4.70 ft (1.433 m); minimum daily, 7.8 ft³/s (0.22 m³/s) Sept. [illegible] 1971, Oct. 26, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 11, 1954, reached a stage of 5.54 ft (1.689 m), from floodmark, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 300 ft³/s (8.50 m³/s) Mar. 29, gage height, 2.48 ft (0.756 m), no peak above base of 500 ft³/s (14 m³/s); minimum daily, 10 ft³/s (0.28 m³/s) Jan. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	21	18	13	11	26	78	51	22	118	16	93
2	11	16	17	13	12	25	96	46	23	72	16	115
3	13	18	15	13	12	26	84	48	22	37	15	66
4	11	16	15	14	13	40	75	49	17	26	21	44
5	18	16	16	15	13	84	93	141	43	21	42	37
6	35	14	16	14	13	58	71	137	43	16	43	31
7	23	12	16	14	12	43	59	93	29	16	30	33
8	18	16	15	13	11	41	56	69	27	21	137	28
9	14	18	15	13	13	39	52	55	26	23	135	31
10	13	18	16	13	20	35	48	49	26	19	78	24
11	13	18	16	12	23	31	40	44	64	16	58	19
12	14	18	15	12	26	47	40	37	57	22	70	23
13	18	14	13	13	46	65	39	35	34	23	45	55
14	21	13	14	12	42	51	36	31	26	21	31	72
15	21	18	15	12	27	40	34	33	22	20	25	78
16	18	17	15	11	25	34	32	44	19	22	30	96
17	16	16	14	10	24	30	31	44	21	19	37	66
18	14	15	13	11	23	37	35	38	40	32	26	78
19	16	15	14	11	22	42	74	34	21	36	23	81
20	19	15	15	12	20	42	209	30	20	28	19	57
21	18	15	13	13	18	57	202	28	18	23	19	46
22	16	14	14	13	22	63	183	29	21	18	21	37
23	14	13	16	14	35	72	125	26	17	18	19	34
24	14	12	16	14	85	52	91	26	20	19	23	59
25	14	15	15	14	49	44	76	27	29	28	19	75
26	15	16	15	13	40	37	65	23	27	24	19	115
27	15	31	16	13	32	35	58	25	23	16	24	122
28	16	23	16	12	28	108	73	25	20	16	24	66
29	17	18	15	12	---	266	89	30	20	18	49	49
30	19	14	14	12	---	166	63	24	101	20	37	42
31	23	---	14	11	---	102	---	23	---	18	24	---
TOTAL	526	495	467	392	717	1838	2307	1394	898	826	1175	1772
MEAN	17.0	16.5	15.1	12.6	25.6	59.3	76.9	45.0	29.9	26.6	37.9	59.1
MAX	35	31	18	15	85	266	209	141	101	118	137	122
MIN	11	12	13	10	11	25	31	23	17	16	15	19
CFSM	.19	.18	.17	.14	.28	.66	.85	.50	.33	.29	.42	.65
IN.	.22	.20	.19	.16	.30	.76	.95	.57	.37	.34	.48	.73

CAL YR 1976 TOTAL 29394 MEAN 80.3 MAX 1380 MIN 11 CFSM .89 IN 12.10
WTR YR 1977 TOTAL 12807 MEAN 35.1 MAX 266 MIN 10 CFSM .39 IN 5.27

05540095 WEST BRANCH DU PAGE RIVER NEAR WARRENVILLE, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to September 1977.

COOPERATION.--Chemical data were furnished by Illinois State Water Survey and reviewed by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM
OCT 27...	1015	16	2170	7.7	5.7	9.0	--	516	113	56	229	48
NOV 30...	1330	14	2200	7.9	.0	7.0	--	558	122	61	230	47
DEC 28...	1430	16	2400	8.0	.0	5.0	--	520	117	55	255	51
JAN 27...	1130	13	2400	7.7	.0	6.0	--	538	119	58	289	53
FEB 25...	1100	49	1480	7.4	.5	54	--	290	66	30	164	54
MAR 31...	1245	100	1190	7.6	9.0	21	--	380	90	37	103	37
APR 21...	1045	190	900	7.7	15.0	50	--	308	71	31	71	33
MAY 17...	1430	40	1430	7.7	23.0	21	--	422	94	45	141	41
JUN 28...	1100	17	2020	7.8	26.0	15	--	550	125	57	217	46
JUL 19...	1130	39	1560	7.8	27.0	17	5.0	410	92	43	168	46
AUG 17...	1130	41	1640	7.6	21.0	39	--	424	97	44	177	47
SEP 20...	1000	54	1250	7.7	17.0	38	--	376	86	38	116	40

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT 27...	4.4	11	344	230	320	.9	13	1208	1.64	52.2	19
NOV 30...	4.2	12	376	245	320	.8	13	1269	1.73	48.0	15
DEC 28...	4.9	12	366	214	360	.9	16	1273	1.73	55.0	10
JAN 27...	5.4	13	398	215	410	1.0	20	1368	1.86	48.0	8
FEB 25...	4.2	9.9	196	109	255	.5	11	771	1.05	102	68
MAR 31...	2.3	5.5	208	147	170	.4	10	722	.98	196	40
APR 21...	1.8	5.8	178	112	116	.4	9.5	538	.73	276	103
MAY 17...	3.0	8.6	260	169	206	.6	11	841	1.14	91.1	55
JUN 28...	4.0	10	352	240	315	.5	15	1194	1.62	56.4	28
JUL 19...	3.6	9.5	278	176	240	--	13	897	1.22	94.5	28
AUG 17...	3.7	9.9	292	183	250	.7	14	953	1.30	106	77
SEP 20...	2.6	7.4	244	129	166	.4	13	721	.98	105	69

05540095 WEST BRANCH DU PAGE RIVER NEAR WARRENVILLE, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT											
27...	3.7	17	4.0	5.2	2.0	1.9	5.9	<100	700	0	0
NOV											
30...	2.4	11	6.8	8.8	3.0	2.9	9.2	<100	700	0	0
DEC											
28...	2.8	13	9.6	12	3.1	3.0	9.5	<100	700	0	0
JAN											
27...	2.2	9.8	12	16	4.3	4.2	13	<100	800	0	0
FEB											
25...	1.9	8.5	4.4	5.7	1.5	1.4	4.4	<100	400	0	0
MAR											
31...	3.6	16	1.5	2.0	.58	.52	1.6	<100	300	0	0
APR											
21...	3.8	17	1.2	1.6	.61	.48	1.5	<100	200	0	0
MAY											
17...	2.6	12	2.8	3.7	1.7	1.6	5.2	<100	500	0	0
JUN											
28...	.74	3.3	4.5	5.8	2.1	2.0	6.4	<100	700	0	0
JUL											
19...	.65	2.9	4.6	6.0	1.7	1.6	5.1	<100	--	0	10
AUG											
17...	2.3	10	2.9	3.8	1.5	1.2	3.8	<100	600	10	0
SEP											
20...	2.7	12	.62	.80	1.0	.84	2.6	<100	400	0	0

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT										
27...	0	500	10	<50	20	60	50	<50	1000	20
NOV										
30...	0	400	50	<50	10	60	60	<50	1070	20
DEC										
28...	0	400	0	<50	20	70	70	<50	1180	30
JAN										
27...	20	500	50	<50	20	90	90	<50	1240	50
FEB										
25...	10	2700	150	<50	10	210	100	<50	600	30
MAR										
31...	0	1100	20	<50	10	140	80	<50	440	20
APR										
21...	0	3800	50	<50	0	140	90	<50	320	40
MAY										
17...	10	1700	10	<50	10	170	120	<50	740	30
JUN										
28...	10	900	170	<50	20	200	10	<50	1060	10
JUL										
19...	10	1000	50	<50	20	200	190	<50	760	20
AUG										
17...	0	2300	90	<50	10	340	110	<50	780	0
SEP										
20...	0	2600	40	<50	10	110	70	<50	660	20

05540500 DU PAGE RIVER AT SHOREWOOD, IL

LOCATION.--Lat 41°31'20", long 88°11'35", in SE¼SW¼ sec.10, T.35 N., R.9 E., Will County, Hydrologic Unit 07120004, on left bank 400 ft (122 m) upstream from bridge on U.S. Highway 52 at Shorewood, 3.8 mi (6.1 km) downstream from Lily Cache Creek and at mile 10.60 (17.06 km).

DRAINAGE AREA.--324 mi² (839 km²).

PERIOD OF RECORD.--October 1940 to current year. Published as "at Troy" 1940-65.

REVISED RECORDS.--WSP 1035: 1944. WSP 1055: 1942(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and masonry dam. Datum of gage is 564.62 ft (172.096 m) above mean sea level (Illinois Department of Transportation bench mark). Prior to Apr. 11, 1941, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year. Daily temperature data were collected during water years 1964-76.

AVERAGE DISCHARGE.--37 years, 241 ft³/s (6.825 m³/s), 10.10 in/yr (257 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,000 ft³/s (340 m³/s) Oct. 11, 1954, gage height, 11.06 ft (3.371 m); minimum, 0.2 ft³/s (0.006 m³/s) Nov. 17, 1955, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,080 ft³/s (30.6 m³/s) Sept. 2, gage height, 3.50 ft (1.067 m), no peak above base of 1,300 ft³/s (37 m³/s); minimum, 17 ft³/s (0.48 m³/s) Jan. 17, result of freezeup.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	75	60	51	40	90	277	173	118	623	57	601
2	61	66	57	48	43	87	272	161	84	333	52	970
3	54	65	54	49	47	90	272	144	74	179	52	577
4	51	60	55	50	55	118	237	148	68	126	59	324
5	63	57	58	51	60	282	272	445	94	102	124	236
6	132	55	60	51	50	209	237	538	173	87	111	176
7	136	54	62	51	46	148	186	383	118	71	104	157
8	97	57	55	50	42	133	161	272	87	73	324	136
9	79	64	55	49	50	129	144	223	80	64	623	120
10	72	62	58	48	70	118	137	195	74	66	471	111
11	63	61	60	46	80	100	125	173	237	62	377	104
12	62	57	56	45	95	137	118	156	342	69	218	97
13	61	51	50	62	160	213	114	144	186	71	182	151
14	56	51	54	47	150	169	111	137	129	68	140	288
15	53	68	58	39	95	133	104	125	104	61	111	316
16	54	60	55	35	82	111	97	129	90	59	104	609
17	53	57	52	31	84	97	90	152	84	68	118	466
18	55	54	50	39	82	122	90	137	107	87	104	696
19	56	54	52	33	75	152	107	118	111	104	94	637
20	55	54	60	37	70	144	366	111	80	85	90	445
21	56	54	45	40	60	173	684	107	68	72	97	332
22	56	51	65	36	70	177	623	122	65	62	97	269
23	57	49	60	38	105	200	504	118	60	54	87	235
24	57	46	56	52	348	182	366	100	60	52	80	617
25	61	54	54	54	267	144	288	90	57	59	74	582
26	62	54	60	50	156	125	247	84	65	71	74	451
27	58	95	58	70	111	114	213	77	60	61	104	496
28	56	77	56	65	100	165	195	77	57	52	114	386
29	56	55	58	50	---	842	237	97	51	50	232	294
30	59	65	55	45	---	660	213	100	182	65	195	248
31	70	---	53	40	---	420	---	104	---	58	129	---
TOTAL	2028	1782	1741	1452	2673	5984	7087	5140	3165	3114	4798	11117
MEAN	65.4	59.4	56.2	46.8	95.5	193	236	166	106	100	155	371
MAX	136	95	65	70	348	842	684	538	342	623	623	970
MIN	51	46	45	31	40	87	90	77	51	50	52	97
CFSM	.20	.18	.17	.14	.30	.60	.73	.51	.33	.31	.48	1.15
IN.	.23	.20	.20	.17	.31	.69	.81	.59	.36	.36	.55	1.28

CAL YR 1976 TOTAL 98539 MEAN 269 MAX 3830 MIN 45 CFSM .83 IN 11.31
WTR YR 1977 TOTAL 50081 MEAN 137 MAX 970 MIN 31 CFSM .42 IN 5.75

05541500 ILLINOIS RIVER AT DRESDEN ISLAND, IL

LOCATION.--Lat 41°23'53", long 88°16'45", in SE¼NW¼ sec.26, T.34 N., R.8 E., Grundy County, Hydrologic Unit 07120005, on downstream side of Dresden Island navigation dam, 1.5 mi (2.4 km) below the confluence of Des Plaines River and Kankakee River.

DRAINAGE AREA.--7,279 mi² (18,853 km²).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1967 to September 1977 (discontinued).

REVISED RECORDS.--WDR IL-75: Drainage area.

INSTRUMENTATION.--Temperature recorder since June 1967.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURES: Maximum, 35.0°C July 15, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 35.0°C July 15; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	24.5	21.5	17.5	14.5	5.0	0.5	2.5	0.0	1.0	0.0	2.5	0.0
2	25.0	21.5	17.5	15.5	4.0	0.0	3.0	0.0	2.5	0.0	2.5	0.0
3	23.5	21.5	16.5	14.5	5.5	3.0	3.0	2.5	3.5	0.0	5.0	1.0
4	25.0	22.0	15.5	12.0	6.5	1.5	3.0	0.0	3.5	0.0	4.0	0.5
5	23.0	21.0	15.5	11.5	7.5	1.5	3.0	0.0	3.0	0.0	4.0	0.0
6	23.0	20.0	15.0	12.0	7.0	3.0	3.0	0.0	3.5	0.0	3.0	0.0
7	22.0	18.0	15.5	9.5	6.5	0.0	3.0	0.0	3.0	0.0	4.0	0.0
8	20.0	18.0	14.5	9.0	6.0	0.0	3.0	0.0	3.5	0.0	5.5	1.5
9	19.5	17.5	12.5	10.0	6.5	3.5	3.0	0.0	5.0	0.0	6.5	3.0
10	19.5	17.0	12.0	9.0	6.5	0.0	3.0	0.0	6.0	2.0	8.5	5.0
11	19.5	17.5	12.5	8.0	6.0	0.0	2.5	0.0	7.5	3.5	10.5	7.5
12	20.0	17.5	13.0	7.5	6.5	1.0	2.5	0.5	7.0	3.5	12.5	10.0
13	19.0	17.5	10.0	5.5	6.5	0.0	3.0	0.5	7.0	4.0	12.0	10.5
14	20.0	17.0	9.5	4.5	6.5	1.0	3.0	0.0	4.0	2.0	12.5	10.0
15	19.0	17.0	10.0	5.5	6.5	2.0	2.0	0.0	5.0	1.0	13.0	10.5
16	18.0	14.0	9.0	5.5	6.0	2.5	1.5	0.0	7.5	0.0	13.0	10.0
17	17.0	13.5	9.5	5.5	6.0	2.5	1.5	0.5	5.5	1.5	11.0	9.0
18	19.5	13.5	8.0	5.0	6.5	2.5	2.5	0.0	5.5	2.5	11.0	9.0
19	18.5	17.5	9.0	6.5	6.5	4.0	1.0	0.0	4.0	2.0	9.0	7.0
20	19.5	16.0	9.5	5.5	5.0	0.0	2.0	0.0	4.5	1.5	9.0	6.5
21	19.0	16.0	9.0	6.5	4.5	0.0	3.0	0.0	5.0	1.0	8.0	5.5
22	18.0	14.0	7.0	5.0	4.0	0.0	3.5	0.0	6.5	2.5	7.5	4.0
23	17.5	15.5	8.0	3.5	3.0	0.0	3.5	0.0	6.5	4.5	9.0	5.5
24	17.5	16.0	7.5	3.5	4.0	0.0	3.5	2.0	6.5	3.0	8.5	5.0
25	18.5	15.5	8.5	5.0	4.5	2.0	3.5	0.0	5.0	2.0	8.5	5.5
26	18.0	15.0	9.5	8.0	5.5	0.5	3.5	0.0	3.5	1.0	10.0	7.0
27	17.5	14.5	8.0	4.5	4.0	1.0	2.0	0.0	3.5	0.0	10.0	8.0
28	17.5	14.0	8.0	1.0	1.5	0.0	2.0	0.0	3.5	0.5	12.0	9.5
29	18.0	14.5	6.0	0.0	2.5	0.0	2.0	0.0	---	---	13.0	11.5
30	16.5	14.5	5.0	2.0	2.5	0.0	1.5	0.0	---	---	12.5	11.5
31	17.5	15.0	---	---	3.0	0.0	1.0	0.0	---	---	13.0	10.0
MONTH	25.0	13.5	17.5	0.0	7.5	0.0	3.5	0.0	7.5	0.0	13.0	0.0

05541500 ILLINOIS RIVER AT DRESDEN ISLAND, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.0	8.0	19.5	16.5	27.5	25.0	26.0	24.0	29.5	26.0	27.5	24.0
2	12.0	9.5	19.0	18.5	24.5	23.0	25.5	22.5	29.5	26.0	25.0	22.5
3	12.5	10.0	19.0	17.5	26.0	22.0	26.0	23.5	29.5	26.5	24.5	21.0
4	12.5	11.5	19.0	17.5	26.5	23.0	28.0	24.0	30.0	27.5	26.0	22.0
5	12.0	8.5	21.5	19.0	26.5	24.0	30.0	25.5	29.5	28.0	25.5	22.0
6	10.5	5.5	20.5	20.0	25.0	24.0	32.0	28.0	29.0	27.0	25.5	21.0
7	11.0	6.5	19.5	18.0	23.5	22.0	32.0	29.5	29.5	27.0	26.5	21.5
8	10.5	7.5	18.0	16.5	23.0	21.5	31.0	30.0	29.0	27.0	27.5	21.0
9	11.5	7.0	17.0	15.0	23.0	21.5	31.0	28.5	27.5	26.0	25.5	21.5
10	14.0	9.0	17.5	14.0	22.5	21.5	30.5	28.0	29.0	25.5	25.0	19.0
11	16.0	11.5	19.5	15.5	25.0	20.5	30.0	27.5	25.5	22.0	25.5	19.0
12	18.0	13.5	20.0	17.5	23.5	20.5	30.5	27.5	25.0	21.0	23.5	20.5
13	19.5	15.5	22.0	19.5	21.5	20.0	33.5	28.0	25.0	21.5	25.5	20.5
14	19.0	16.0	24.5	20.0	22.5	20.0	34.0	30.0	25.0	22.0	23.5	19.0
15	20.5	17.5	24.0	21.0	24.5	20.0	35.0	31.0	26.0	21.5	21.5	17.0
16	21.5	18.0	25.5	22.0	25.0	21.5	31.5	30.5	26.5	22.5	19.5	17.0
17	22.5	18.0	25.5	23.0	26.0	23.5	32.5	29.5	27.0	23.0	19.5	17.0
18	23.5	19.5	27.5	23.5	26.0	25.0	31.5	30.0	27.0	22.5	20.5	17.0
19	21.5	21.0	29.5	24.0	26.0	24.5	33.0	30.0	26.0	22.0	19.0	16.5
20	22.0	20.5	28.5	26.0	26.0	24.5	33.0	30.0	26.5	22.5	19.5	15.0
21	21.0	20.5	27.0	25.5	27.0	24.0	33.5	31.0	26.0	23.0	20.0	14.5
22	20.0	18.0	27.5	25.5	27.0	25.5	32.0	30.0	26.5	23.0	19.5	15.5
23	18.5	17.0	27.5	24.5	26.5	25.0	32.5	29.0	27.0	23.5	19.0	15.5
24	18.0	16.5	33.0	24.5	28.5	25.5	32.0	29.5	26.5	22.0	22.0	17.5
25	17.0	15.0	33.0	29.0	30.0	27.5	31.5	28.5	27.0	21.5	21.5	17.0
26	18.0	14.5	32.5	30.5	31.0	27.5	30.5	27.0	27.5	23.5	21.5	17.5
27	20.0	15.5	33.0	30.0	31.0	28.0	30.0	25.5	29.5	24.5	20.5	16.5
28	18.5	15.0	30.5	26.5	29.5	28.5	30.0	26.0	28.5	25.5	21.5	15.0
29	19.5	14.0	29.5	26.5	29.5	27.5	30.5	27.0	28.0	25.0	21.0	16.0
30	18.5	15.0	28.5	26.5	28.0	26.0	32.0	27.5	29.0	24.5	20.5	17.0
31	---	---	28.0	26.0	---	---	30.5	27.5	29.0	25.5	---	---
MONTH	23.5	5.5	33.0	14.0	31.0	20.0	35.0	22.5	30.0	21.0	27.5	14.5
YEAR	35.0	0.0										

05542000 MAZON RIVER NEAR COAL CITY, IL

LOCATION.--Lat 41°17'10", long 88°21'35", in SW¼SW¼ sec.31, T.33 N., R.8 E., Grundy County, Hydrologic Unit 07120005, on right bank at downstream side of bridge on State Highway 113, 0.2 mi (0.3 km) downstream from Johnny Run and 4 mi (6 km) west of Coal City.

DRAINAGE AREA.--455 mi² (1,178 km²).

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1035: 1943(P). WSP 1115: 1946. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 527.41 ft (160.754 m) above mean sea level. Prior to Apr. 30, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--38 years, 309 ft³/s (8.751 m³/s), 9.22 in/yr (234 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,600 ft³/s (498 m³/s) July 15, 1958, gage height, 19.70 ft (6.005 m); no flow at times in many years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 8, 1924, reached a stage of about 21 ft (6.4 m), discharge not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft³/s (110 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Sept. 2	0300	*4670	132	*9.19	2.801	Sept. 19	0815	4230	120	8.67	2.643

Minimum daily discharge, 1.0 ft³/s (0.028 m³/s) Jan. 16-21, Jan. 27 to Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	2.0	3.0	1.5	1.0	75	289	62	60	35	18	2330
2	3.3	2.0	3.0	1.4	1.0	70	279	60	49	32	17	3880
3	3.3	1.6	3.0	1.4	1.1	81	251	57	44	27	14	1860
4	3.3	1.8	3.0	1.3	1.1	100	223	91	37	23	13	1070
5	3.3	1.6	3.0	1.3	1.1	132	260	1190	34	19	14	731
6	4.4	1.6	2.9	1.3	1.1	168	224	1720	39	16	15	531
7	12	1.6	2.9	1.3	1.1	90	185	1400	35	14	18	437
8	6.7	1.6	2.9	1.3	1.1	95	163	855	36	13	37	347
9	5.5	1.6	2.9	1.2	1.2	159	136	591	34	13	87	261
10	4.5	1.6	2.9	1.2	3.5	161	130	445	30	13	216	194
11	3.6	1.6	2.8	1.1	10	129	120	359	32	13	306	140
12	3.2	1.6	2.8	1.1	15	156	102	289	55	13	213	110
13	3.1	1.6	2.8	1.1	20	181	94	245	80	13	149	292
14	3.0	2.0	2.7	1.1	27	123	93	218	50	12	84	711
15	2.9	2.3	2.6	1.1	16	87	95	205	38	12	52	1040
16	2.8	2.3	2.5	1.0	8.0	66	96	305	30	48	39	1900
17	3.2	2.3	2.5	1.0	5.0	52	89	188	27	68	36	1320
18	3.2	2.3	2.5	1.0	4.0	59	85	158	50	64	27	2560
19	3.2	2.6	2.5	1.0	3.5	63	83	134	41	76	17	3790
20	3.2	2.6	3.0	1.0	3.5	75	81	117	31	58	79	2220
21	3.2	2.6	4.0	1.0	5.0	101	84	106	24	44	123	1440
22	3.2	3.2	3.0	1.1	8.0	127	84	113	20	36	79	1090
23	3.2	2.8	2.7	1.1	15	155	79	106	18	30	56	877
24	3.2	2.6	2.5	1.1	240	229	75	105	18	25	44	1190
25	2.3	2.6	2.4	1.1	180	239	72	101	17	45	39	1690
26	2.2	2.6	2.3	1.1	140	202	69	84	15	134	36	1130
27	2.2	3.5	2.2	1.0	90	165	68	76	13	64	31	845
28	2.2	4.0	2.2	1.0	80	228	68	78	12	41	34	650
29	2.1	3.5	2.0	1.0	---	891	64	125	12	30	64	563
30	2.1	3.0	1.8	1.0	---	628	64	96	25	23	95	477
31	2.1	---	1.7	1.0	---	398	---	72	---	19	84	---
TOTAL	109.2	68.6	83.0	35.2	883.3	5485	3805	9751	1006	1073	2134	35656
MEAN	3.52	2.29	2.68	1.14	31.5	177	127	315	33.5	34.6	68.8	1189
MAX	12	4.0	4.0	1.5	240	891	289	1720	80	134	306	3880
MIN	2.1	1.6	1.7	1.0	1.0	52	64	57	12	12	13	110
CFSM	.008	.005	.006	.003	.07	.39	.28	.69	.07	.08	.15	2.61
IN.	.01	.01	.01	.00	.07	.45	.31	.80	.08	.09	.17	2.92

CAL YR 1976 TOTAL 105994.6 MEAN 290 MAX 6780 MIN 1.6 CFSM .64 IN 8.67
WTR YR 1977 TOTAL 60089.5 MEAN 165 MAX 3880 MIN 1.0 CFSM .36 IN 4.91

05543500 ILLINOIS RIVER AT MARSEILLES, IL

(National stream-quality accounting network station)

LOCATION.--Lat 41°19'40", long 88°45'10", in SE¼SW¼ sec.13, T.33 N., R.4 E., La Salle County, Hydrologic Unit 07120005, on right bank 0.4 mi (0.6 km) downstream from dam in Marseilles, 6.9 mi (11.1 km) upstream from Fox River, and at mile 246.6 (396.8 km).

DRAINAGE AREA.--8,259 mi² (21,391 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1919 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 462.91 ft (141.095 m) above mean sea level. October 1919 to January 1935, nonrecording gage at site at Morris, 16.6 mi (26.7 km) upstream, at datum 478.50 ft (145.847 m) above mean sea level. January 1935 to September 1939, water-stage recorder at site 300 ft (91 m) downstream from site used 1919-35 and at that datum.

REMARKS.--Water-discharge records good. Figures of daily discharge include flow through navigation locks. Flow regulated by powerplants and navigation dam above station. Since Jan. 17, 1900, flow has included diversion from Lake Michigan through Chicago Sanitary and Ship Canal.

AVERAGE DISCHARGE.--58 years, 10,680 ft³/s (302.5 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 93,900 ft³/s (2,660 m³/s) July 14, 1957, gage height, 15.20 ft (4.633 m); minimum daily, 1,460 ft³/s (41.3 m³/s) Oct. 16, 1943.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 26.2 ft (7.99 m) at Morris occurred in 1831, and a stage of 25.4 ft (7.74 m), ice jam, occurred at present site on Jan. 21, 1916.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36,100 ft³/s (1,020 m³/s) Sept. 18, gage height, 7.78 ft (2.371 m); minimum daily discharge, 2,570 ft³/s (72.8 m³/s) Oct. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3460	3170	4030	6280	5200	9550	14800	5540	4160	11700	3130	23000
2	3080	3320	3860	5750	4900	6390	15000	5150	5470	7140	3510	30200
3	3990	3370	3240	5970	4800	9290	13800	5300	3470	6220	3640	20200
4	3200	3240	3810	5810	4800	9890	14100	5670	3810	4970	4850	14000
5	4800	3350	4270	5660	4800	8120	13600	12500	7660	4750	5310	12200
6	6330	2630	3790	5460	4900	7440	13300	15100	4550	4970	4540	9900
7	4170	2760	3460	5770	5200	7470	12500	16700	4780	5050	3490	7720
8	4020	3290	3800	5940	6000	7930	11300	15800	4710	5290	9950	7230
9	3980	3310	4230	5720	5800	7790	9650	14300	4820	5310	8310	6310
10	3770	3950	4190	5290	5630	7560	9110	13200	3800	3550	12200	5380
11	3900	4050	4710	5200	5610	8790	8280	12100	10400	4300	16300	4990
12	3400	3340	5110	5600	5420	9550	8600	10400	6310	4710	15800	5390
13	3390	3760	5200	5800	6130	8730	8280	8300	5740	4220	15800	9130
14	3580	3950	4910	5600	6450	8670	7740	7360	4550	3710	14500	8890
15	3230	3440	5200	5400	6150	8110	8010	7500	4440	4400	12100	16400
16	3010	3730	5270	5200	5890	7570	7270	6190	4610	7890	12100	22500
17	3270	3950	5050	5000	6060	7880	6670	5970	5260	6120	7710	24000
18	3410	4080	5080	5000	6360	8760	6510	5860	7180	5430	6140	34800
19	3800	4090	5490	4900	6070	7170	6480	6370	4980	4280	4980	31700
20	2570	3940	4970	4800	6580	8640	10000	5880	3960	4920	5310	23800
21	3080	3880	4800	4470	6010	8990	10000	5650	4410	5970	5860	19000
22	2970	4040	4870	4650	6040	9730	8640	4710	4880	3600	4210	16100
23	3440	3870	5160	4580	7210	9750	7350	5070	4190	3570	4650	15200
24	3540	3620	4400	4170	10400	9890	7060	5540	4630	5780	3980	17800
25	2910	4050	4660	4230	11200	9550	6510	4960	5050	4320	3580	16900
26	4000	4210	5130	3580	11500	9310	6760	4640	3290	3800	3960	16800
27	3210	5210	4620	4460	11800	9320	5970	4670	3770	3530	4700	12300
28	3740	4330	4660	5200	13300	12200	6830	5130	4790	3650	4990	11000
29	2800	4010	4960	5600	---	18200	4960	4250	3790	4700	7820	9300
30	3770	3660	5280	6200	---	18400	5300	4850	9410	3380	5500	8200
31	3680	---	5850	5600	---	17100	---	4610	---	4010	4500	---
TOTAL	111500	111600	144060	162890	190210	297740	274380	239270	152870	155240	223420	460340
MEAN	3597	3720	4647	5255	6793	9605	9146	7718	5096	5008	7207	15340
MAX	6330	5210	5850	6280	13300	18400	15000	16700	10400	11700	16300	34800
MIN	2570	2630	3240	3580	4800	6390	4960	4250	3290	3380	3130	4990

CAL YR 1976 TOTAL 3475140 MEAN 9495 MAX 63000 MIN 2570
WTR YR 1977 TOTAL 2523520 MEAN 6914 MAX 34800 MIN 2570

05543500 ILLINOIS RIVER AT MARSEILLES, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1975 to current year.
WATER TEMPERATURES: July 1975 to current year.

REMARKS.--Prior to water year 1977 and during high water periods sample collected at bridge on State Highway 170, 0.3 mi (0.5 km) upstream from discharge station. No specific conductance record Oct. 6 due to lost sample. No specific conductance record Nov. 11 to Dec. 5, Dec. 7 to Jan. 3, Jan. 5 to Feb. 9 due to apparent alteration of sample because of freezing during storage.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily recorded, 1,100 micromhos Feb. 17, 1977; minimum daily recorded, 410 micromhos Aug. 13, 1977.
WATER TEMPERATURES: Maximum daily, 31.5°C July 19, 22, 1977; minimum daily, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily recorded, 1,100 micromhos Feb. 17; minimum daily recorded, 410 micromhos Aug. 13.
WATER TEMPERATURES: Maximum daily, 31.5°C July 19, 22; minimum daily, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
NOV 03...	1115	2720	820	7.5	12.5	15	8.5	860	830	240	84	62
DEC 07...	1130	3130	780	8.0	4.0	2	10.9	57	--	230	82	59
JAN 04...	1430	6040	695	7.1	3.5	2	12.4	470	94	210	71	53
FEB 10...	1345	5670	730	7.5	4.0	3	12.4	855	870	210	71	54
MAR 23...	1200	10000	830	7.7	7.5	7	10.6	--	--	290	120	76
APR 28...	1030	6840	800	7.8	16.0	15	7.7	230	160	310	130	80
MAY 25...	1330	5630	910	7.7	28.0	25	4.0	180	5400	310	130	78
JUN 22...	1215	6210	760	7.8	24.0	1	5.8	120	1300	250	95	64
JUL 27...	1415	3460	705	7.6	29.0	5	6.6	110	820	220	75	56
AUG 29...	1245	4890	820	7.2	27.0	20	5.4	B2500	580	260	100	65
SEP 28...	1200	11400	720	7.5	20.0	20	9.3	720	270	320	110	76

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV 03...	21	65	36	1.8	7.0	190	0	160	9.6	110	78
DEC 07...	21	53	32	1.5	5.9	180	0	140	2.9	97	68
JAN 04...	19	50	34	1.5	5.2	170	0	140	22	82	62
FEB 10...	18	61	38	1.8	4.3	170	0	140	8.6	74	82
MAR 23...	24	47	26	1.2	4.7	200	0	160	6.4	100	75
APR 28...	26	44	23	1.1	4.3	210	0	170	5.3	120	69
MAY 25...	27	54	27	1.3	5.6	220	0	180	7.0	110	70
JUN 22...	22	54	31	1.5	5.4	190	0	160	4.8	110	69
JUL 27...	20	56	35	1.6	5.2	180	0	150	7.2	89	67
AUG 29...	23	52	30	1.4	6.4	190	0	160	19	93	71
SEP 28...	31	28	16	.7	3.8	250	0	210	13	88	44

B Results based on colony count outside the acceptable range (non-ideal colony count).

05543500 ILLINOIS RIVER AT MARSEILLES, IL--*Continued*

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
NOV 03...	.8	5.7	487	443	.66	3580	4.6	2.5	7.1	31	.79
DEC 07...	.6	5.6	434	399	.59	3670	3.4	3.9	7.3	32	.91
JAN 04...	.5	4.5	382	359	.52	6230	2.3	3.0	5.3	23	.85
FEB 10...	.6	4.6	407	382	.55	6230	2.7	2.2	4.9	22	.79
MAR 23...	.5	6.8	477	433	.65	12900	4.7	1.1	5.8	26	.44
APR 28...	.5	5.3	488	453	.66	9010	2.5	3.0	5.5	24	.63
MAY 25...	.5	7.0	531	461	.72	8070	3.8	3.9	7.7	34	.74
JUN 22...	.6	5.1	446	424	.61	7480	4.7	1.3	6.0	27	.62
JUL 27...	.7	3.1	420	386	.57	3920	3.4	1.8	5.2	23	.60
AUG 29...	.7	6.7	440	411	.60	5810	4.6	2.0	6.6	29	.58
SEP 28...	.3	11	452	405	.61	13900	4.9	1.5	6.4	28	.39

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
JAN 04...	2	1	1	3	2	1	10	0	10	1	1	0
APR 28...	3	0	3	1	0	1	20	10	<10	2	2	0
JUL 27...	3	1	2	0	0	0	20	19	1	4	4	0

DATE	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
JAN 04...	10	0	10	720	90	21	15	6	40	0	40
APR 28...	10	10	0	1100	10	14	6	8	110	80	30
JUL 27...	25	19	6	2900	0	11	11	0	80	60	20

DATE	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN 04...	<.5	.0	<.5	0	0	0	90	20	70	7.9
APR 28...	<.5	.0	<.5	1	0	1	50	40	10	10
JUL 27...	.1	.1	.0	0	0	0	60	50	10	5.1

05543500 ILLINOIS RIVER AT MARSEILLES, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	SUS-PENDED SFDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .062 MM
NOV				
03...	13000	111	815	96
DEC				
07...	1200	84	710	97
JAN				
04...	2200	89	1450	97
FEB				
10...	1900	61	934	96
MAR				
23...	--	105	2840	96
APR				
28...	--	105	1940	96
MAY				
25...	4900	108	1640	91
JUN				
22...	7200	114	1910	93
JUL				
27...	45000	80	747	100
AUG				
29...	41000	42	555	99
SEP				
28...	3100	102	3140	97

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	810	850	---	---	---	590	720	805	780	770	700	625
2	835	810	---	---	---	580	710	780	800	725	675	530
3	825	750	---	---	---	550	750	815	840	700	700	495
4	820	760	---	695	---	575	710	825	820	680	695	530
5	625	770	---	---	---	570	780	805	815	640	690	525
6	---	795	780	---	---	580	745	750	810	625	710	560
7	815	810	---	---	---	610	725	710	765	635	710	600
8	770	780	---	---	---	645	815	680	790	695	700	620
9	755	840	---	---	---	685	740	660	760	730	675	665
10	760	765	---	---	730	695	750	650	755	675	715	695
11	770	---	---	---	675	690	780	640	765	695	640	705
12	770	---	---	---	660	700	770	680	725	695	450	700
13	785	---	---	---	655	765	800	710	740	705	410	715
14	735	---	---	---	695	730	780	720	705	705	425	700
15	720	---	---	---	950	735	740	730	720	700	440	700
16	730	---	---	---	1080	765	795	740	750	690	470	705
17	770	---	---	---	1100	790	805	775	720	760	570	540
18	785	---	---	---	940	800	745	770	680	770	560	540
19	780	---	---	---	1040	870	790	785	705	710	585	490
20	765	---	---	---	880	800	840	800	715	715	675	555
21	750	---	---	---	835	855	890	890	705	730	690	625
22	760	---	---	---	750	820	890	850	760	740	700	600
23	770	---	---	---	720	830	815	815	770	765	720	590
24	820	---	---	---	690	840	855	840	820	685	720	605
25	810	---	---	---	635	830	820	830	750	650	740	680
26	825	---	---	---	650	815	795	800	725	670	730	695
27	820	---	---	---	665	785	800	815	750	705	735	685
28	805	---	---	---	610	830	800	805	725	700	760	680
29	830	---	---	---	---	1020	785	810	705	710	750	670
30	815	---	---	---	---	840	840	800	725	700	720	680
31	870	---	---	---	---	820	---	755	---	700	725	---
MEAN	783	791	---	---	787	742	786	769	753	702	651	624

WTR YR 1977 MEAN 733 MAX 1100 MIN 410

05543500 ILLINOIS RIVER AT MARSEILLES, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.5	14.0	1.5	0.0	0.0	4.0	11.0	17.0	24.0	26.5	28.0	27.0
2	23.5	15.0	1.5	0.0	0.0	4.0	12.0	18.0	24.0	25.5	27.0	25.5
3	23.0	11.5	0.0	0.0	0.0	3.0	13.0	19.0	26.0	25.0	28.5	23.5
4	24.0	12.0	2.0	0.0	0.0	4.0	12.0	19.0	27.0	25.5	27.0	25.0
5	18.5	11.5	1.5	0.0	1.0	4.0	10.0	20.5	25.5	28.5	27.5	24.5
6	19.5	10.0	1.0	0.0	1.0	3.0	9.0	20.0	25.0	30.0	27.0	25.0
7	19.5	9.0	1.5	0.0	0.5	4.5	8.5	20.5	24.0	30.0	28.0	25.5
8	20.5	10.0	1.5	0.0	1.0	5.5	11.0	18.0	27.5	29.0	27.5	24.5
9	19.5	10.5	3.5	0.0	3.0	5.5	11.0	17.5	23.0	27.5	27.5	24.5
10	19.0	9.5	3.0	0.0	4.0	7.0	13.5	17.5	21.5	29.5	27.0	24.5
11	18.0	10.5	3.0	0.0	5.0	9.5	14.0	18.0	23.0	29.5	26.5	24.0
12	17.0	8.0	3.0	0.0	5.5	11.0	16.5	19.0	23.0	29.0	25.0	23.5
13	19.5	7.5	3.0	0.0	5.0	11.5	17.0	21.0	23.5	30.0	25.0	22.5
14	19.0	9.0	4.0	0.0	5.5	13.0	18.0	21.5	23.0	30.5	24.0	23.0
15	17.5	7.0	4.5	0.0	4.5	12.5	18.5	21.5	24.0	31.0	24.5	20.5
16	15.5	6.5	4.0	0.0	3.5	12.5	19.5	23.0	24.5	30.0	25.5	20.5
17	16.0	7.0	5.0	0.0	4.0	11.5	21.0	24.0	24.0	31.0	26.0	20.5
18	15.0	8.0	5.0	0.0	7.0	10.5	20.5	24.5	26.0	30.0	25.5	23.5
19	13.5	8.0	5.5	0.0	5.0	10.0	20.5	24.5	27.0	31.5	23.5	20.0
20	13.0	7.0	4.5	0.0	5.0	9.0	20.5	25.5	26.0	30.0	23.0	20.0
21	12.5	7.0	2.5	0.0	4.5	9.0	20.5	26.0	26.5	30.5	25.5	20.0
22	13.5	5.0	2.0	0.0	5.5	8.0	19.0	26.0	26.5	31.5	25.5	19.5
23	12.5	5.5	0.5	0.0	6.5	7.5	19.0	25.5	25.5	29.5	25.5	19.0
24	13.5	7.0	2.0	1.5	6.0	8.0	18.0	25.5	28.5	29.5	25.5	20.0
25	14.0	7.5	2.5	2.0	6.0	10.0	17.0	26.0	29.0	30.0	25.5	21.0
26	14.0	8.0	3.0	2.0	4.5	10.0	18.0	29.0	24.5	30.0	25.0	20.5
27	13.0	5.0	3.0	1.0	4.0	10.5	17.5	28.0	29.0	28.0	25.5	20.0
28	14.0	4.5	3.0	0.0	3.5	11.5	16.5	29.5	29.0	29.0	25.5	20.0
29	14.5	3.5	0.0	0.0	---	15.5	18.0	30.0	29.0	27.5	26.5	20.0
30	13.0	2.5	0.0	0.0	---	14.5	17.0	27.5	26.5	30.5	26.5	20.0
31	15.5	---	0.0	0.0	---	11.0	---	27.0	---	28.5	28.0	---
MEAN	17.0	8.0	2.5	0.0	3.5	8.5	16.0	23.0	25.5	29.0	26.0	22.5

WTR YR 1977 MEAN 15.0 MAX 31.5 MIN 0.0

05543500 ILLINOIS RIVER AT MARSEILLES, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	NOV 3.76		DEC 7.76		JAN 4.77		FEB 10.77		MAY 25.77	
TIME	1115		1130		1430		1345		1330	
TOTAL CELLS/ML	13000		1200		2200		1900		4900	
DIVERSITY: DIVISION	1.5		0.7		1.4		1.1		1.6	
.CLASS	1.5		0.7		1.4		1.1		1.7	
..ORDER	1.8		1.3		2.0		1.8		2.4	
...FAMILY	2.0		1.9		2.8		2.2		2.8	
....GENUS	2.1		2.1		3.5		2.3		3.3	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE										
....GOLENKINIA	--	-	--	-	--	-	--	-	--	-
....MICRACTINIUM	--	-	41	3	13	1	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	2400#	18	61	5	26	1	14	1	130	3
....CHODATELLA	--	-	--	-	--	-	--	-	*	0
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	51	4	51	2	--		--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	*	0
....TETRAEDRON	--	-	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	*	0	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	26	1	--	-	250	5
....CRUCIGENIA	540	4	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	72	6	130	6	--	-	810#	16
....TETRASTRUM	--	-	--	-	--	-	--	-	--	-
..TETRASPORALES										
...COCCOMYXACEAE										
....ELAKATOTHRIX	--	-	--	-	--	-	--	-	--	-
...PALMELLACEAE										
....GLOEOCYSTIS	--	-	--	-	--	-	--	-	--	-
....SPHAEROCYSTIS	--	-	--	-	13	1	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	14	1	--	-
...PHACOTACEAE										
....PTEROMONAS	--	-	--	-	--	-	--	-	--	-
...VOLVOCACEAE										
....PANDORINA	--	-	--	-	--	-	--	-	130	3
..ZYGNEMATALES										
...DESMIDIACEAE										
....COSMARIUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

05543500 ILLINOIS RIVER AT MARSEILLES, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	NOV 3,76		DEC 7,76		JAN 4,77		FEB 10,77		MAY 25,77	
TIME	1115		1130		1430		1345		1330	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....COSCINODISCUS	--	-	--	-	--	-	--	-	--	-
....CYCLOTELLA	7000#	52	790#	64	130	6	270	14	79	2
....MELOSIRA	--	-	20	2	*	0	27	1	32	1
..PENNALES										
...ACHNANTHACEAE										
....COCCONEIS	540	4	--	-	*	0	--	-	*	0
....RHOICOSPHENIA	270	2	10	1	*	0	--	-	32	1
...CYMBELLACEAE										
....AMPHORA	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	--	-	10	1	190	9	160	9	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	130	6	--	-	--	-
....FRAGILARIA	--	-	--	-	370#	17	37	2	--	-
....SYNEDRA	--	-	41	3	83	4	210	11	32	1
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	20	2	*	0	--	-	32	1
...NAVICULACEAE										
....GYROSIGMA	--	-	--	-	--	-	--	-	*	0
....NAVICULA	270	2	--	-	13	1	*	0	160	3
...NITZSCHIACEAE										
....NITZSCHIA	--	-	51	4	150	7	14	1	480	10
...SURIRELLACEAE										
....SURIRELLA	--	-	61	5	26	1	18	1	48	1
...TABELLARIACEAE										
....TABELLARIA	--	-	--	-	*	0	*	0	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...CHROMULINACEAE										
....CHRYSOCOCCUS	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	--	-	1000#	21
....ANACYSTIS	2200#	16	--	-	200	9	91	5	410	8
..HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	120	5	--	-	--	-
....OSCILLATORIA	--	-	--	-	510#	23	1000#	53	1100#	22
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	*	0	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	--	-	79	2
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	*	0	63	1
....PHACUS	--	-	--	-	--	-	*	0	--	-
....TRACHELOMONAS	270	2	--	-	--	-	*	0	*	0

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

05543500 ILLINOIS RIVER AT MARSEILLES, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	JUN 22.77		JUL 27.77		AUG 29.77		SEP 28.77	
TIME	1215		1415		1245		1200	
TOTAL CELLS/ML	7200		45000		41000		3100	
DIVERSITY: DIVISION	1.9		1.5		1.4		1.7	
.CLASS	1.9		1.5		1.4		1.7	
..ORDER	2.6		2.3		2.1		2.2	
...FAMILY	3.0		2.5		2.6		2.7	
....GENUS	3.7		3.0		3.0		3.2	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	*	0
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	880	2	720	2	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	330	1	--	-	--	-
....MICRACTINIUM	--	-	880	2	2900	7	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	46	1	*	0	270	1	86	3
....CHODATELLA	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	920	13	--	-	2200	5	--	-
....KIRCHNERIELLA	46	1	--	-	*	0	--	-
....OOCYSTIS	120	2	--	-	360	1	--	-
....SELENASTRUM	--	-	440	1	--	-	--	-
....TETRAEDRON	*	0	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	120	2	880	2	720	2	--	-
....CRUCIGENIA	240	3	--	-	1200	3	110	4
....SCENEDESMUS	720	10	1300	3	2200	6	290	9
....TETRASTRUM	--	-	440	1	--	-	57	2
..TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	--	-	--	-	*	0	--	-
...PALMELLACEAE								
....GLOEOCYSTIS	170	2	--	-	--	-	--	-
....SPHAEROCYSTIS	--	-	1400	3	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	*	0	*	0	1100	3	--	-
...PHACOTACEAE								
....PTEROMONAS	--	-	--	-	--	-	*	0
...VOLVOCACEAE								
....PANDORINA	--	-	--	-	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIUM	--	-	--	-	--	-	29	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

05543500 ILLINOIS RIVER AT MARSEILLES, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	JUN 22,77 1215		JUL 27,77 1415		AUG 29,77 1245		SEP 28,77 1200	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....COSCINODISCUS	*	0	--	-	--	-	--	-
....CYCLOTELLA	490	7	7000#	16	2800	7	310	10
....MELOSIRA	830	11	3500	8	1600	4	310	10
..PENNALES								
...ACHNANTHACEAE								
....COCCONEIS	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	*	0	--	-	--	-	*	0
...CYMBELLACEAE								
....AMPHORA	*	0	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	*	0	--	-	--	-	160	5
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	--	-
....FRAGILARIA	120	2	--	-	*	0	190	6
....SYNEDRA	--	-	--	-	--	-	100	3
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....GYROSIGMA	--	-	--	-	--	-	--	-
....NAVICULA	*	0	--	-	--	-	210	7
...NITZSCHIACEAE								
....NITZSCHIA	150	2	550	1	720	2	--	-
...SURIRELLACEAE								
....SURIRELLA	*	0	--	-	--	-	--	-
...TABELLARIACEAE								
....TABELLARIA	*	0	--	-	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...CHROMULINACEAE								
....CHRYSOCOCCUS	*	0	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....AGMENELLUM	980	14	16000#	35	1400	4	--	-
....ANACYSTIS	260	4	1100	2	3800	9	--	-
..HORMOGONALES								
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	--	-	--	-
....OSCILLATORIA	1100	15	9200#	20	18000#	44	1100#	34
...RIVULARIACEAE								
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	*	0	--	-	--	-
...CRYPTOMONODACEAE								
....CRYPTOMONAS	630	9	330	1	450	1	--	-
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	*	0	*	0	--	-	--	-
....PHACUS	--	-	*	0	--	-	--	-
....TRACHELOMONAS	*	0	*	0	--	-	160	5

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON
(Sampling method - Polyethylene strip)

Date	Length of exposure (days)	Biomass (g/m²) Dry weight	Biomass (g/m²) Ash weight	Chlorophyll a (mg/m²)	Chlorophyll b (mg/m²)	Biomass pigment ratio
SEP 28	29			0.617	0.277	

05546700 FOX RIVER NEAR CHANNEL LAKE, IL

LOCATION.--Lat 42°28'45", long 88°10'42", in SW¼ sec.10, T.46 N., R.20 E., Lake County, Hydrologic Unit 07120006, at bridge on State Highway 173, 1.3 mi (2.1 km) west of Channel Lake.

DRAINAGE AREA.--871 mi² (2,256 km²).

PERIOD OF RECORD.--December 1975 to July 1977 (discontinued).

REMARKS.--Suspended sediment samples were collected by a local observer approximately twice weekly and additional samples were collected during high runoff periods. Discharge estimates from gaging station at Wilmot Wisconsin (station 05546500) approximately 5 mi (8 km) upstream.

WATER QUALITY DATA, OCTOBER 1976 TO JULY 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT						
02...	1445	146	655	12.0	118	47
07...	1730	238	600	12.0	109	70
09...	1415	201	610	12.5	125	68
14...	1740	174	650	13.5	92	43
16...	1440	166	650	6.0	206	92
22...	1745	170	625	7.0	43	20
23...	1205	168	675	7.0	31	14
28...	1820	172	600	6.0	94	44
30...	1740	169	560	6.5	50	23
NOV						
04...	1500	204	675	5.5	35	19
06...	1600	195	625	5.0	3	1.6
07...	1425	197	650	3.5	26	14
13...	1300	168	650	3.5	77	35
19...	1630	174	640	4.0	42	20
20...	1140	174	640	4.0	20	9.4
21...	1120	174	640	3.0	36	17
27...	1400	193	625	2.0	17	8.9
MAR						
09...	1630	258	--	2.0	6	4.2
14...	0800	483	--	5.5	42	55
24...	1700	217	--	6.0	17	10
28...	0730	167	--	9.5	53	24
29...	1700	520	--	11.0	89	125
30...	0730	473	--	10.5	84	107
APR						
08...	1730	381	--	10.5	43	44
15...	1630	143	--	14.0	61	24
23...	1650	219	--	18.5	133	79
29...	1500	536	--	16.0	57	82
MAY						
03...	1700	487	--	15.5	66	87
12...	1715	522	--	19.5	55	78
17...	1700	525	--	24.0	39	55
24...	1700	502	--	28.5	34	46
JUN						
02...	1730	500	--	26.5	38	51
06...	1630	530	--	24.5	34	49
18...	0800	509	--	24.0	40	55
21...	1700	518	--	24.0	26	36
JUL						
02...	0900	625	--	25.0	55	93
06...	1300	522	--	25.0	63	89

05547000 CHANNEL LAKE NEAR ANTIOCH, IL

LOCATION.--Lat 42°28'20", long 88°08'50", in NW¼NE¼ sec.14, T.46 N., R.9 E., Lake County, Hydrologic Unit 07120006, on right bank 30 ft (9 m) downstream from bridge on State Highway 173, at dredged channel outlet of Channel Lake, 0.8 mi (1.3 km) southwest of natural outlet, and 3 mi (5 km) west of Antioch.

PERIOD OF RECORD.--October 1939 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 733.00 ft (223.418 m) above mean sea level (levels by Illinois Department of Transportation). Prior to Oct. 1, 1971, at datum 2.21 ft (0.674 m) higher.

REMARKS.--Gage heights estimated Nov. 24 to Mar. 29. Stage controlled by McHenry Dam on Fox River near McHenry.

COOPERATION.--Water-stage recorder inspected by employee of Illinois Department of Transportation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.29 ft (2.527 m), present datum, Apr. 6, 1960; minimum, 1.65 ft (0.503 m) Jan. 25, 26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.58 ft (1.396 m) May 22; minimum, 1.65 ft (0.503 m) Jan. 25, 26.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.08	4.09	2.78	1.94	1.69	2.78	3.64	4.23	4.12	4.27	4.06	4.18
2	4.05	4.10	2.71	1.93	1.71	2.83	3.93	4.15	4.08	4.24	4.05	4.22
3	4.05	4.05	2.63	1.92	1.74	2.82	4.04	4.16	4.09	4.15	4.05	4.25
4	4.10	3.98	2.57	1.90	1.76	2.73	4.26	4.18	4.11	4.16	4.07	4.27
5	4.07	4.06	2.49	1.88	1.77	2.62	4.28	4.31	4.12	4.17	4.09	4.26
6	4.14	4.06	2.42	1.87	1.80	2.46	4.29	4.27	4.05	4.16	4.13	4.24
7	4.19	3.96	2.35	1.85	1.82	2.48	4.28	4.18	4.10	4.15	4.18	4.22
8	4.21	4.00	2.29	1.84	1.84	2.57	4.23	4.17	4.09	4.14	4.22	4.22
9	4.22	4.01	2.25	1.84	1.87	2.67	4.23	4.16	4.12	4.13	4.25	4.17
10	4.22	3.94	2.22	1.82	1.90	2.72	4.20	4.17	4.15	4.12	4.26	4.15
11	4.26	3.90	2.18	1.81	1.93	2.76	4.23	4.18	4.18	4.06	4.25	4.12
12	4.27	3.87	2.15	1.80	1.96	2.82	4.10	4.19	4.08	4.05	4.23	4.10
13	4.19	3.84	2.11	1.78	2.00	2.87	4.08	4.19	4.11	4.07	4.19	4.12
14	4.29	3.79	2.08	1.77	2.05	2.92	4.06	4.17	4.10	4.06	4.16	4.12
15	4.26	3.72	2.07	1.76	2.09	2.95	4.09	4.18	4.12	4.05	4.15	4.11
16	4.16	3.65	2.07	1.74	2.12	2.97	4.08	4.25	4.14	4.03	4.12	4.13
17	4.13	3.64	2.06	1.73	2.17	2.97	4.08	4.34	4.14	4.06	4.08	4.17
18	4.16	3.55	2.05	1.71	2.22	2.94	4.07	4.35	4.23	4.11	4.05	4.22
19	4.17	3.45	2.05	1.70	2.27	2.91	4.08	4.31	4.23	4.19	4.02	4.20
20	4.16	3.36	2.05	1.68	2.34	2.90	4.09	4.30	4.19	4.25	4.00	4.17
21	4.21	3.28	2.04	1.67	2.40	2.84	4.11	4.28	4.17	4.27	3.99	4.15
22	4.19	3.20	2.03	1.67	2.45	2.78	3.92	4.41	4.12	4.26	3.99	4.15
23	4.16	3.12	2.02	1.66	2.52	2.80	3.96	4.28	4.14	4.20	4.00	4.17
24	4.12	2.99	2.01	1.66	2.54	2.79	3.94	4.24	4.13	4.20	4.00	4.23
25	4.12	3.02	2.00	1.65	2.61	2.78	3.94	4.19	4.08	4.19	3.98	4.26
26	4.10	2.98	1.99	1.65	2.67	2.76	3.99	4.15	4.10	4.17	3.97	4.25
27	4.07	3.02	1.98	1.66	2.72	2.70	4.06	4.13	4.08	4.12	4.03	4.25
28	4.19	2.92	1.97	1.67	2.75	2.84	3.96	4.12	4.09	4.08	4.06	4.25
29	4.19	2.88	1.96	1.67	---	3.33	4.11	4.10	4.09	4.12	4.09	4.24
30	4.09	2.82	1.95	1.67	---	3.28	4.17	4.05	4.15	4.11	4.11	4.21
31	4.05	---	1.95	1.67	---	3.38	---	4.14	---	4.08	4.14	---
MEAN	4.16	3.58	2.18	1.76	2.13	2.84	4.08	4.21	4.12	4.14	4.10	4.19
MAX	4.29	4.10	2.78	1.94	2.75	3.38	4.29	4.41	4.23	4.27	4.26	4.27
MIN	4.05	2.82	1.95	1.65	1.69	2.46	3.64	4.05	4.05	4.03	3.97	4.10

WTR YR 1977 MEAN 3.46 MAX 4.41 MIN 1.65

05547500 FOX LAKE NEAR LAKE VILLA, IL

LOCATION.--Lat 42°25'10", long 88°07'35", in SE¼SE¼ sec.36, T.46 N., R.9 E., Lake County, Hydrologic Unit 07120006, on east shore of Columbia Bay of Fox Lake, 2.5 mi (4.0 km) west of Lake Villa.

PERIOD OF RECORD.--October 1939 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 733.00 (223.418 m) above mean sea level (levels by Illinois Department of Transportation). Prior to Dec. 15, 1939, nonrecording gage at same site at datum 2.26 ft (0.689 m) higher. Dec. 15, 1939, to Sept. 30, 1971, at datum 2.26 ft (0.689 m) higher.

REMARKS.--Gage heights estimated Dec. 10 to Mar. 16, July 7 to Aug. 18. Stage controlled by McHenry Dam on Fox River near McHenry.

COOPERATION.--Water-stage recorder inspected by employee of Illinois Department of Transportation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.18 ft (2.493 m), present datum, Apr. 6, 1960; minimum, 1.83 ft (0.558 m), present datum, Jan. 11-14, 16-18, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.47 ft (1.362 m) Apr. 5; minimum, 1.93 ft (0.588 m) Jan. 9.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.07	4.08	2.78	1.95	1.97	2.74	3.60	4.15	4.14	4.22	4.06	4.13
2	4.06	4.11	2.71	1.96	1.97	2.72	3.90	4.12	4.08	4.14	4.03	4.18
3	4.06	4.11	2.64	1.97	1.96	2.68	4.09	4.12	4.06	4.15	4.03	4.19
4	4.06	4.08	2.57	1.97	1.96	2.62	4.25	4.14	4.07	4.16	4.05	4.23
5	4.13	4.08	2.48	1.96	1.97	2.40	4.35	4.23	4.10	4.17	4.07	4.23
6	4.21	4.07	2.42	1.96	1.97	2.38	4.30	4.23	4.10	4.17	4.10	4.23
7	4.20	4.07	2.35	1.95	1.97	2.37	4.30	4.20	4.08	4.14	4.17	4.21
8	4.21	4.02	2.31	1.94	1.95	2.47	4.20	4.18	4.10	4.13	4.20	4.17
9	4.22	4.03	2.26	1.93	1.95	2.56	4.12	4.15	4.12	4.12	4.24	4.20
10	4.20	3.98	2.23	1.94	2.00	2.60	4.10	4.14	4.10	4.10	4.26	4.13
11	4.20	3.95	2.19	1.96	2.07	2.62	4.07	4.14	4.15	4.08	4.25	4.08
12	4.24	3.90	2.16	1.97	2.16	2.73	4.07	4.16	4.13	4.06	4.23	4.07
13	4.25	3.86	2.12	1.96	2.17	2.79	4.06	4.15	4.10	4.05	4.18	4.08
14	4.22	3.81	2.09	1.95	2.18	2.86	4.04	4.13	4.10	4.05	4.15	4.07
15	4.26	3.75	2.08	1.95	2.19	2.91	4.03	4.13	4.09	4.03	4.12	4.05
16	4.18	3.67	2.08	1.96	2.23	2.94	4.03	4.20	4.10	4.01	4.10	4.08
17	4.16	3.63	2.07	1.97	2.29	2.92	4.02	4.28	4.11	4.04	4.07	4.10
18	4.15	3.56	2.07	1.98	2.34	2.88	4.00	4.30	4.24	4.08	4.05	4.17
19	4.16	3.48	2.06	1.98	2.38	2.87	3.98	4.27	4.21	4.15	4.03	4.21
20	4.18	3.38	2.06	1.96	2.42	2.83	4.00	4.24	4.20	4.22	4.00	4.18
21	4.22	3.32	2.05	1.95	2.48	2.67	4.01	4.22	4.15	4.26	3.99	4.15
22	4.20	3.27	2.03	1.95	2.53	2.72	3.97	4.26	4.11	4.26	3.99	4.15
23	4.15	3.14	2.02	1.95	2.58	2.77	3.96	4.23	4.10	4.23	3.97	4.14
24	4.16	3.05	2.01	1.95	2.62	2.75	3.98	4.20	4.10	4.20	3.97	4.22
25	4.15	3.01	2.00	1.95	2.67	2.73	3.95	4.15	4.08	4.20	3.97	4.21
26	4.15	2.98	1.99	1.95	2.71	2.70	3.94	4.12	4.06	4.18	3.97	4.27
27	4.14	3.03	1.98	1.95	2.76	2.69	3.98	4.10	4.05	4.14	4.00	4.24
28	4.17	2.93	1.97	1.96	2.76	2.70	4.01	4.09	4.08	4.08	4.06	4.25
29	4.14	2.88	1.96	1.97	---	2.90	4.05	4.07	4.08	4.10	4.09	4.25
30	4.10	2.83	1.97	1.98	---	3.15	4.10	4.04	4.12	4.10	4.09	4.24
31	4.11	---	1.96	1.99	---	3.36	---	4.13	---	4.10	4.12	---
MEAN	4.16	3.60	2.18	1.96	2.26	2.74	4.05	4.17	4.11	4.13	4.08	4.17
MAX	4.26	4.11	2.78	1.99	2.76	3.36	4.35	4.30	4.24	4.26	4.26	4.27
MIN	4.06	2.83	1.96	1.93	1.95	2.37	3.60	4.04	4.05	4.01	3.97	4.05

WTR YR 1977 MEAN 3.47 MAX 4.35 MIN 1.93

05548000 NIPPERSINK LAKE AT FOX LAKE, IL

LOCATION.--Lat 42°24'10", long 88°10'55", in SE¼SE¼ sec.4, T.45 N., R.9 E., Lake County, Hydrologic Unit 07120006, on east shore of Nippersink Lake 300 ft (91 m) upstream from Chicago, Milwaukee, St. Paul and Pacific Railroad bridge in village of Fox Lake, and at mile 107.65 (173.21 km).

PERIOD OF RECORD.--October 1939 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 733.00 ft (223.418 m) above mean sea level (levels by Illinois Department of Transportation). Prior to Dec. 16, 1939, nonrecording gage at same site at datum 2.13 ft (0.649 m) higher. Dec. 16, 1939, to Sept. 30, 1971, at datum 2.13 ft (0.649 m) higher.

REMARKS.--Gage heights estimated Oct. 17-26, Feb. 11 to Mar. 12. Stage controlled by McHenry Dam on Fox River near McHenry.

COOPERATION.--Water-stage recorder inspected by employee of Illinois Department of Transportation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.12 ft (2.475 m), present datum, Apr. 5, 1960; minimum observed, 1.70 ft (0.518 m) Feb. 10, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.42 ft (1.347 m) Sept. 30; minimum, 1.80 ft (0.549 m) Jan. 7-9.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.97	4.02	2.73	1.81	1.84	2.63	3.55	4.09	4.10	4.07	4.00	4.09
2	3.99	4.00	2.65	1.82	1.84	2.60	3.80	4.14	4.05	4.07	3.99	4.12
3	3.97	4.00	2.57	1.83	1.83	2.43	4.05	4.12	4.03	4.07	4.00	4.15
4	3.95	4.01	2.50	1.83	1.83	2.20	4.17	4.11	4.02	4.08	4.00	4.15
5	4.05	3.97	2.42	1.83	1.83	2.24	4.21	4.14	4.07	4.08	4.03	4.18
6	4.15	3.98	2.36	1.82	1.83	2.26	4.20	4.21	4.05	4.07	4.07	4.17
7	4.12	3.99	2.29	1.80	1.83	2.23	4.20	4.22	4.03	4.07	4.07	4.16
8	4.12	3.96	2.25	1.80	1.83	2.22	4.15	4.20	4.03	4.04	4.14	4.11
9	4.13	3.94	2.20	1.80	1.83	2.35	4.07	4.15	4.07	4.04	4.16	4.04
10	4.12	3.92	2.14	1.81	1.83	2.47	3.97	4.12	4.06	3.98	4.20	4.04
11	4.10	3.88	2.12	1.83	1.87	2.46	3.86	4.12	4.12	3.97	4.20	4.00
12	4.10	3.84	2.08	1.83	1.95	2.53	3.95	4.10	4.14	3.98	4.15	3.99
13	4.12	3.78	2.03	1.82	2.03	2.62	3.98	4.10	4.12	3.99	4.10	4.02
14	4.06	3.73	2.02	1.81	2.07	2.70	3.99	4.09	4.10	3.97	4.07	3.99
15	4.09	3.69	2.01	1.81	2.15	2.73	3.99	4.12	4.07	3.95	4.03	4.00
16	4.10	3.62	2.00	1.83	2.15	2.74	3.98	4.17	4.06	3.93	4.01	4.00
17	4.07	3.54	2.00	1.85	2.18	2.74	3.98	4.24	4.10	3.93	4.00	4.02
18	4.07	3.48	1.99	1.85	2.30	2.76	3.97	4.25	4.14	3.95	3.98	4.08
19	4.08	3.41	1.98	1.85	2.26	2.66	3.93	4.24	4.15	4.05	3.95	4.10
20	4.09	3.33	1.98	1.82	2.28	2.60	3.94	4.21	4.13	4.12	3.93	4.10
21	4.13	3.25	1.97	1.81	2.32	2.61	3.92	4.18	4.10	4.18	3.92	4.09
22	4.11	3.15	1.95	1.81	2.35	2.53	4.01	4.15	4.07	4.16	3.90	4.08
23	4.06	3.07	1.94	1.81	2.46	2.54	3.96	4.19	4.06	4.14	3.92	4.08
24	4.08	2.98	1.93	1.81	2.46	2.48	3.95	4.17	4.05	4.12	3.92	4.10
25	4.07	2.94	1.92	1.81	2.50	2.44	3.93	4.14	4.02	4.13	3.90	4.13
26	4.07	2.93	1.91	1.81	2.60	2.37	3.90	4.10	4.00	4.08	3.90	4.13
27	4.06	2.93	1.90	1.81	2.65	2.36	3.91	4.05	4.02	4.04	3.88	4.16
28	4.02	2.88	1.89	1.82	2.65	2.45	4.07	4.04	4.02	4.00	3.93	4.18
29	4.01	2.82	1.87	1.85	---	2.52	4.03	4.03	4.03	4.05	4.03	4.18
30	4.03	2.77	1.85	1.85	---	2.93	4.07	4.02	4.07	4.04	4.03	4.21
31	4.07	---	1.82	1.85	---	3.27	---	4.07	---	4.01	4.03	---
MEAN	4.07	3.53	2.11	1.82	2.13	2.54	3.99	4.14	4.07	4.04	4.01	4.10
MAX	4.15	4.02	2.73	1.85	2.65	3.27	4.21	4.25	4.15	4.18	4.20	4.21
MIN	3.95	2.77	1.82	1.80	1.83	2.20	3.55	4.02	4.00	3.93	3.88	3.99

WTR YR 1977 MEAN 3.38 MAX 4.25 MIN 1.80

05548280 NIPPERSINK CREEK NEAR SPRING GROVE, IL

LOCATION.--Lat 42°26'37", long 88°14'51", in NE¼NW¼ sec.25, T.46 N., R.8 E., McHenry County, Hydrologic Unit 07120006, on right bank at upstream side of bridge on Winn Road, 0.6 mi (1.0 km) west of Spring Grove and at mile 7.34 (11.81 km).

DRAINAGE AREA.--192 mi² (497 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1966 to current year.

REVISED RECORDS.--WSP 2115: 1966-67(M), 1969-70(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 746.00 ft (227.381 m) above mean sea level.

REMARKS.--Water-discharge records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--11 years, 151 ft³/s (4.276 m³/s), 10.68 in/yr (271 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,980 ft³/s (113 m³/s) Feb. 20, 1971, gage height, 13.03 ft (3.972 m); minimum, 13 ft³/s (0.37 m³/s) Nov. 3, 1966, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1960 reached a stage of 13.7 ft (4.18 m), from information by local resident, and flood in July 1938 reached a stage of about 4 to 6 ft (1.2 to 1.8 m) higher than that in April 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 362 ft³/s (10.3 m³/s) Mar. 29, gage height, 5.92 ft (1.804 m), no peak above base of 500 ft³/s (14 m³/s); minimum daily, 16 ft³/s (0.45 m³/s) July 28, Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	48	49	37	28	59	180	84	60	54	23	33
2	34	49	48	37	28	56	168	67	45	37	21	39
3	34	42	48	36	27	60	152	58	40	35	22	35
4	35	40	47	36	26	160	150	59	38	36	26	33
5	64	42	47	35	25	184	187	99	45	29	32	30
6	95	45	46	35	24	125	176	102	48	26	40	25
7	72	38	44	35	24	106	150	83	43	23	37	22
8	60	37	44	34	24	104	127	71	46	20	49	21
9	53	43	46	33	24	112	116	58	46	19	50	28
10	49	37	46	32	24	106	109	56	40	17	54	20
11	50	37	47	31	23	102	102	53	49	18	46	16
12	50	40	47	29	23	134	82	49	44	28	43	20
13	42	41	46	28	32	153	74	45	39	26	38	27
14	45	42	45	26	42	132	71	41	37	23	31	26
15	43	45	44	25	40	115	85	46	35	23	25	29
16	33	38	42	24	38	104	82	55	36	20	32	42
17	32	39	41	23	37	91	76	76	43	24	29	45
18	35	39	41	23	36	95	71	67	73	35	24	71
19	41	39	43	23	35	95	64	56	53	40	22	68
20	43	38	46	23	34	102	64	48	39	32	20	57
21	44	38	39	24	33	111	83	45	33	27	21	47
22	42	40	38	25	33	112	82	60	31	24	22	46
23	40	41	38	26	60	111	76	42	30	22	24	44
24	42	45	38	27	150	101	73	35	33	23	21	76
25	44	41	40	27	25	94	70	33	32	22	20	73
26	44	44	41	26	95	90	65	31	28	18	22	61
27	40	47	42	25	80	95	63	30	27	17	27	49
28	45	65	43	25	70	138	89	30	30	16	40	42
29	50	80	42	26	---	319	112	49	29	27	68	39
30	43	66	40	27	---	292	100	72	41	25	47	39
31	47	---	38	28	---	226	---	76	---	31	42	---
TOTAL	1423	1326	1344	891	1140	3884	3099	1776	1213	817	1018	1203
MEAN	45.9	44.2	43.4	28.7	40.7	125	103	57.3	40.4	26.4	32.8	40.1
MAX	95	80	49	37	150	319	187	102	73	54	68	76
MIN	32	37	38	23	23	56	63	30	27	16	20	16
CFSM	.24	.23	.23	.15	.21	.65	.54	.30	.21	.14	.17	.21
IN.	.28	.26	.26	.17	.22	.75	.60	.34	.24	.16	.20	.23

CAL YR 1976 TOTAL 44851 MEAN 123 MAX 1900 MIN 23 CFSM .64 IN 8.69
WTR YR 1977 TOTAL 19136 MEAN 52.4 MAX 319 MIN 16 CFSM .27 IN 3.71

05548280 NIPPERSINK CREEK NEAR SPRING GROVE, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1975 to July 1977 (discontinued).

REMARKS.--Suspended sediment samples were collected by a local observer approximately twice weekly and additional samples were collected during high runoff periods.

WATER QUALITY DATA, OCTOBER 1976 TO JULY 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT						
04...	0800	35	580	15.0	65	6.1
07...	0800	76	625	9.5	93	19
13...	1630	42	580	18.5	64	7.3
15...	0800	45	600	10.0	55	6.7
17...	1230	33	550	8.5	60	5.3
25...	1600	47	560	9.5	27	3.4
30...	1630	47	580	9.0	11	1.4
NOV						
02...	0800	50	580	5.5	44	5.9
04...	1100	40	560	4.5	28	3.0
10...	1400	37	560	4.5	87	8.7
12...	1300	42	560	3.0	78	8.8
15...	1640	52	560	2.5	83	12
17...	1600	39	560	4.5	17	1.8
22...	1500	40	680	3.0	57	6.2
24...	1600	56	560	1.0	147	22
DEC						
03...	1630	50	600	1.5	134	18
04...	1600	52	600	1.0	181	25
16...	1630	50	590	1.5	68	9.2
20...	1630	54	--	1.0	160	23
JAN						
24...	1200	34	--	1.5	160	15
FEB						
11...	1200	26	--	1.0	46	3.2
18...	1630	46	--	3.5	113	14
23...	1630	100	--	2.5	83	22
MAR						
06...	1630	109	--	3.0	201	59
07...	1600	94	--	3.0	55	14
14...	0815	123	--	6.0	28	9.3
24...	1630	89	--	8.5	47	11
28...	1630	130	--	10.5	68	24
29...	1630	345	--	13.0	244	227
30...	0745	282	--	10.0	121	92
31...	0800	234	--	8.5	116	73
APR						
04...	1630	148	--	8.5	76	30
14...	1630	60	--	14.0	54	8.7
20...	1220	54	--	18.0	66	9.6
25...	1630	65	--	16.0	31	5.4
MAY						
03...	1630	56	--	16.0	54	8.2
12...	1630	46	--	19.5	30	3.7
17...	1630	86	--	25.5	168	39
24...	1630	33	--	29.0	30	2.7
JUN						
02...	1700	43	--	26.5	34	3.9
06...	1615	45	--	25.0	48	5.8
18...	1630	67	--	24.0	65	12
21...	1630	33	--	26.0	13	1.2
JUL						
02...	0915	36	--	25.5	41	4.0
07...	1315	23	--	25.5	26	1.6

05548500 FOX RIVER AT JOHNSBURG, IL

LOCATION.--Lat 42°22'35", long 88°14'15", in SW¼SW¼ sec.18, T.45 N., R.9 E., McHenry County, Hydrologic Unit 07120006, on left bank at upstream side of bridge on Chapel Hill Road in Johnsburg, 5.5 mi (8.8 km) upstream from McHenry Dam and at mile 104.27 (167.77 km).

DRAINAGE AREA.--1,205 mi² (3,121 km²).

PERIOD OF RECORD.--October 1939 to current year (gage heights only).

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 733.00 ft (223.418 m) above mean sea level (levels by Illinois Department of Transportation). Prior to Dec. 14, 1939, nonrecording gage at same site at datum 2.16 ft (0.658 m) higher. Dec. 14, 1939, to Sept. 30, 1971, at datum 2.16 ft (0.658 m) higher.

REMARKS.--Gage heights estimated Jan. 6 to Mar. 14. Stage regulated by McHenry Dam 5.5 mi (8.8 km) downstream from station.

COOPERATION.--Water-stage recorder inspected by employee of Illinois Department of Transportation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.55 ft (2.301 m), present datum, Apr. 6, 1960; minimum, 1.43 ft (0.436 m), present datum, Mar. 9, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.43 ft (1.350 m) May 8; minimum, 1.60 ft (0.488 m) Jan. 22.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.90	3.93	2.55	1.72	1.70	2.50	3.49	4.02	3.96	3.87	3.95	4.06
2	3.94	3.89	2.51	1.70	1.70	2.46	3.69	4.14	4.02	3.92	3.93	4.08
3	3.93	3.91	2.38	1.69	1.70	2.20	4.01	4.10	3.97	3.98	3.95	4.13
4	3.88	3.93	2.31	1.68	1.70	1.96	4.06	4.09	3.92	4.00	3.94	4.10
5	4.00	3.84	2.23	1.67	1.70	2.01	4.02	4.08	3.99	4.00	3.96	4.18
6	4.07	3.87	2.18	1.67	1.70	2.10	4.04	4.18	4.08	3.99	4.02	4.14
7	4.07	3.90	2.13	1.66	1.70	2.12	4.04	4.23	3.98	4.03	4.01	4.13
8	4.07	3.86	2.12	1.67	1.70	2.07	4.04	4.20	4.03	3.98	4.05	4.07
9	4.06	3.81	2.06	1.67	1.70	2.13	3.93	4.14	4.06	4.03	4.11	3.95
10	4.05	3.83	2.02	1.67	1.70	2.23	3.75	4.10	4.02	3.95	4.13	4.00
11	4.02	3.79	2.02	1.67	1.95	2.34	3.62	4.07	4.06	3.90	4.12	3.97
12	4.00	3.75	1.98	1.67	1.97	2.32	3.82	4.04	4.12	3.91	4.07	3.96
13	4.05	3.70	1.95	1.67	1.98	2.40	3.90	4.03	4.07	3.95	4.01	3.99
14	3.92	3.65	1.88	1.67	2.03	2.57	3.94	4.04	4.06	3.89	4.03	3.97
15	3.96	3.60	1.92	1.67	2.14	2.54	3.93	4.08	4.02	3.90	3.98	4.00
16	3.99	3.52	1.91	1.67	2.14	2.46	3.92	4.11	3.98	3.85	3.94	3.96
17	3.97	3.38	1.91	1.67	2.12	2.58	3.92	4.16	4.02	3.87	3.94	3.99
18	3.95	3.34	1.90	1.66	2.28	2.59	3.90	4.20	4.04	3.88	3.94	4.06
19	4.01	3.29	1.89	1.66	2.22	2.47	3.85	4.19	4.06	3.96	3.90	4.06
20	4.00	3.21	1.92	1.65	2.28	2.41	3.87	4.15	4.07	4.03	3.89	4.07
21	3.97	3.13	1.88	1.62	2.31	2.41	3.81	4.11	4.06	4.13	3.88	4.07
22	3.97	3.00	1.85	1.60	2.32	2.36	3.99	4.01	4.06	4.13	3.83	4.05
23	4.04	2.93	1.85	1.61	2.39	2.31	3.90	4.13	3.98	4.07	3.92	4.07
24	4.05	2.82	1.82	1.62	2.39	2.34	3.87	4.12	3.98	4.05	3.90	4.00
25	4.04	2.76	1.84	1.63	2.35	2.27	3.85	4.10	4.02	4.12	3.87	4.03
26	4.05	2.83	1.84	1.64	2.57	2.21	3.85	4.09	3.97	4.04	3.84	4.05
27	4.01	2.88	1.82	1.65	2.60	2.17	3.81	4.04	3.96	4.00	3.78	4.08
28	3.87	2.78	1.81	1.66	2.59	2.29	4.10	4.00	3.95	3.93	3.83	4.14
29	3.87	2.68	1.80	1.67	---	2.01	3.99	4.00	3.92	4.00	4.01	4.14
30	3.96	2.62	1.77	1.68	---	2.72	4.03	4.01	3.92	4.01	3.99	4.22
31	4.00	---	1.73	1.69	---	3.15	---	3.94	---	3.89	3.93	---
MEAN	3.99	3.41	1.99	1.66	2.06	2.35	3.90	4.09	4.01	3.98	3.96	4.06
MAX	4.07	3.93	2.55	1.72	2.60	3.15	4.10	4.23	4.12	4.13	4.13	4.22
MIN	3.87	2.62	1.73	1.60	1.70	1.96	3.49	3.94	3.92	3.85	3.78	3.95

WTR YR 1977 MEAN 3.29 MAX 4.23 MIN 1.60

05549000 BOONE CREEK NEAR MCHENRY, IL

LOCATION.--Lat 42°19'15", long 88°18'45", in NW¼SW¼ sec.4, T.44 N., R.8 E., McHenry County, Hydrologic Unit 07120006, on left bank at upstream side of bridge on Bull Valley Road, 2.5 mi (4.0 km) southwest of McHenry and at mile 4.84 (7.79 km).

DRAINAGE AREA.--15.5 mi² (40.1 km²).

PERIOD OF RECORD.--July 1948 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 769.56 ft (234.562 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--29 years, 12.9 ft³/s (0.365 m³/s), 11.30 in/yr (287 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 276 ft³/s (7.82 m³/s) June 2, 1970, gage height, 4.87 ft (1.484 m); minimum, 1.6 ft³/s (0.045 m³/s) Dec. 25, 1948, gage height, 0.30 ft (0.091 m), result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 42 ft³/s (1.19 m³/s) Mar. 29, gage height, 1.37 ft (0.418 m), no peak above base of 70 ft³/s (2.0 m³/s); minimum, 1.7 ft³/s (0.048 m³/s) Aug. 20, 22, 23, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	8.6	11	6.8	6.6	7.5	19	11	8.3	11	4.0	5.5
2	6.1	8.2	10	6.5	6.4	7.2	20	11	7.4	12	4.3	6.1
3	7.1	9.2	9.2	6.2	6.2	9.4	19	10	6.6	12	3.9	5.3
4	5.8	9.2	8.7	6.4	6.0	18	21	11	5.8	9.2	5.6	5.5
5	13	9.2	8.4	6.1	5.8	20	23	16	7.5	7.7	7.0	4.4
6	16	9.0	8.0	5.9	5.6	13	19	12	7.4	7.1	8.0	4.9
7	11	8.8	7.7	5.8	5.5	10	18	11	7.0	6.6	7.8	4.6
8	9.6	9.4	7.4	6.2	5.4	9.4	16	10	6.9	5.9	13	4.5
9	9.6	16	7.2	6.4	5.3	10	14	10	6.5	5.5	12	4.1
10	9.2	16	7.0	6.5	5.2	9.8	14	10	5.5	6.2	12	3.4
11	8.8	16	6.9	6.6	5.6	9.8	13	9.2	7.2	4.5	9.2	4.0
12	7.7	15	6.9	6.5	6.4	16	12	8.8	7.1	7.2	8.8	4.6
13	7.4	15	6.8	6.4	7.6	14	12	8.4	6.7	7.6	7.4	5.1
14	7.4	14	6.9	6.2	11	12	12	8.1	6.3	11	6.6	4.6
15	7.7	13	7.0	6.1	8.6	11	12	14	5.3	13	6.3	5.4
16	8.1	13	7.1	6.0	7.5	11	12	12	4.8	10	7.8	6.3
17	8.4	11	7.2	5.9	7.0	10	11	19	5.0	12	7.1	7.8
18	8.1	11	7.2	6.0	6.8	11	11	15	5.9	10	5.6	16
19	9.1	11	7.2	6.1	6.6	10	11	12	5.5	7.0	4.9	9.3
20	8.8	11	7.4	6.3	6.4	11	12	11	4.4	6.7	4.3	7.1
21	8.4	10	7.2	6.6	6.2	12	15	12	4.5	6.3	5.9	6.2
22	8.5	10	7.1	6.8	6.0	12	15	13	4.2	4.9	5.0	5.8
23	8.1	10	7.0	7.0	13	12	11	9.4	4.0	4.3	4.6	5.6
24	8.4	10	7.2	7.0	23	11	10	8.9	3.8	4.8	4.2	7.0
25	8.5	10	7.4	7.2	20	10	8.8	7.9	4.0	4.3	3.9	6.3
26	8.4	11	7.7	7.2	15	10	8.8	7.4	4.5	3.8	4.2	8.3
27	8.0	12	8.2	7.1	11	11	9.6	7.2	3.8	3.3	3.8	6.5
28	7.7	14	8.2	7.0	9.4	18	19	6.5	6.1	3.6	6.1	6.0
29	7.5	19	7.9	6.9	---	32	14	7.6	11	4.3	10	5.8
30	8.8	13	7.4	6.8	---	25	12	5.8	19	4.8	7.6	5.9
31	10	---	7.0	6.7	---	21	---	9.3	---	5.3	5.5	---
TOTAL	267.0	352.6	237.5	201.2	235.1	404.1	424.2	324.5	192.0	221.9	206.4	181.9
MEAN	8.61	11.8	7.66	6.49	8.40	13.0	14.1	10.5	6.40	7.16	6.66	6.06
MAX	16	19	11	7.2	23	32	23	19	19	13	13	16
MIN	5.8	8.2	6.8	5.8	5.2	7.2	8.8	5.8	3.8	3.3	3.8	3.4
CFSM	.56	.76	.49	.42	.54	.84	.91	.68	.41	.46	.43	.39
IN.	.64	.85	.57	.48	.56	.97	1.02	.78	.46	.53	.50	.44

CAL YR 1976 TOTAL 5360.3 MEAN 14.6 MAX 120 MIN 5.4 CFSM .94 IN 12.86
WTR YR 1977 TOTAL 3248.4 MEAN 8.90 MAX 32 MIN 3.3 CFSM .57 IN 7.80

05549500 FOX RIVER NEAR MCHENRY, IL

LOCATION.--Lat 42°18'35", long 88°15'05", in NW¼ sec.12, T.44 N., R.8 E., McHenry County, Hydrologic Unit 07120006, on right bank of main channel, 300 ft (91 m) upstream from McHenry Dam, 2.5 mi (4.0 km) downstream from McHenry and at mile 98.96 (159.23 km).

DRAINAGE AREA.--1,250 mi² (3,238 km²).

PERIOD OF RECORD.--June 1941 to current year (gage heights only).

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 733.00 ft (223.418 m) above mean sea level (levels by Illinois Department of Transportation). Prior to Oct. 1, 1971, at datum 2.07 ft (0.631 m) higher.

REMARKS.--Stage regulated by McHenry Dam.

COOPERATION.--Water-stage recorder inspected by employee of Illinois Department of Transportation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.36 ft (1.939 m), present datum, Apr. 5, 1960; minimum, 0.32 ft (0.098 m), present datum, Feb. 6, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.40 ft (1.341 m) May 8; minimum, 1.52 ft (0.463 m) Jan. 20-22.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.88	3.92	2.52	1.61	1.54	2.37	3.48	4.02	3.99	3.86	3.95	4.03
2	3.91	3.87	2.37	1.60	1.54	2.08	3.69	4.16	4.05	3.92	3.92	4.06
3	3.90	3.88	2.28	1.60	1.54	2.08	4.00	4.14	3.97	3.97	3.94	4.09
4	3.85	3.91	2.20	1.60	1.54	1.68	3.96	4.11	3.87	4.00	3.92	4.08
5	3.93	3.82	2.12	1.60	1.54	1.90	3.88	4.08	3.93	4.00	3.93	4.14
6	4.01	3.84	2.10	1.59	1.55	1.97	3.88	4.18	4.05	3.98	4.02	4.11
7	4.04	3.87	2.03	1.59	1.55	1.99	3.87	4.25	3.93	4.04	4.00	4.13
8	4.03	3.81	2.03	1.58	1.55	1.94	3.88	4.22	4.00	3.98	4.04	4.06
9	4.04	3.80	1.98	1.58	1.60	1.91	3.75	4.16	4.02	4.05	4.08	3.89
10	4.02	3.82	1.89	1.58	1.64	2.05	3.57	4.14	3.95	3.96	4.11	3.98
11	4.01	3.78	1.88	1.58	1.86	2.16	3.42	4.09	4.00	3.89	4.09	3.94
12	3.99	3.72	1.84	1.57	1.87	2.12	3.81	4.06	4.12	3.88	4.04	3.93
13	3.95	3.69	1.86	1.57	1.87	2.18	3.89	4.08	4.07	3.94	3.99	3.97
14	3.85	3.64	1.77	1.57	1.94	2.28	3.96	4.08	4.02	3.87	4.04	3.95
15	3.93	3.58	1.86	1.57	2.06	2.27	3.95	4.10	4.00	3.87	4.00	3.97
16	3.97	3.48	1.86	1.57	2.05	2.22	3.93	4.12	3.95	3.85	3.93	3.95
17	3.95	3.31	1.86	1.57	2.02	2.28	3.90	4.15	4.00	3.86	3.95	3.97
18	3.93	3.29	1.83	1.57	2.18	2.30	3.89	4.20	4.02	3.85	3.92	4.02
19	3.98	3.27	1.81	1.55	2.12	2.07	3.85	4.20	4.04	3.92	3.89	4.04
20	3.96	3.20	1.89	1.55	2.20	2.00	3.84	4.14	4.09	3.98	3.90	4.05
21	3.95	3.12	1.75	1.52	2.22	2.02	3.77	4.11	4.05	4.11	3.90	4.04
22	3.89	2.99	1.74	1.52	2.22	2.06	3.98	3.99	4.05	4.12	3.83	4.03
23	4.00	2.87	1.74	1.53	2.32	1.94	3.92	4.11	3.97	4.06	3.93	4.03
24	4.02	2.81	1.73	1.55	2.33	1.97	3.89	4.09	3.96	4.04	3.93	4.01
25	4.01	2.76	1.70	1.55	2.23	2.00	3.87	4.09	4.03	4.11	3.87	4.02
26	4.03	2.85	1.73	1.55	2.48	1.90	3.85	4.07	3.95	4.03	3.84	4.04
27	3.98	2.87	1.72	1.55	2.50	1.95	3.82	4.03	3.94	3.98	3.72	4.07
28	3.83	2.74	1.70	1.56	2.50	2.09	4.16	3.98	3.95	3.90	3.76	4.14
29	3.84	2.67	1.65	1.57	---	1.61	4.00	4.02	3.93	3.99	3.99	4.12
30	3.95	2.61	1.63	1.58	---	2.63	4.01	4.01	3.88	4.00	3.98	4.19
31	3.95	---	1.62	1.58	---	3.12	---	3.92	---	3.88	3.89	---
MEAN	3.95	3.39	1.89	1.57	1.95	2.10	3.86	4.10	3.99	3.96	3.95	4.04
MAX	4.04	3.92	2.52	1.61	2.50	3.12	4.16	4.25	4.12	4.12	4.11	4.19
MIN	3.83	2.61	1.62	1.52	1.54	1.61	3.42	3.92	3.87	3.85	3.72	3.89

WTR YR 1977 MEAN 3.23 MAX 4.25 MIN 1.52

05550000 FOX RIVER AT ALGONQUIN, IL

LOCATION.--Lat 42°09'59", long 88°17'25", in NE¼NW¼ sec.34, T.43 N., R.8 E., McHenry County, Hydrologic Unit 07120006, on right bank 20 ft (6 m) upstream from bridge on State Highway 62 (Chicago Street) in Algonquin, 140 ft (43 m) upstream from Algonquin Dam, and at mile 82.62 (132.94 km).

DRAINAGE AREA.--1,403 mi² (3,634 km²).

PERIOD OF RECORD.--October 1915 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1175: 1916. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 729.48 ft (222.346 m) above mean sea level. Prior to Oct. 20, 1933, nonrecording gage at site 20 ft (6 m) downstream at same datum.

REMARKS.--Records good except those for period of no gage-height record, Dec. 11 to Mar. 16, which are poor. Flow regulated by McHenry Dam, 16 mi (26 km) upstream from station, and occasionally affected by wind action. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--62 years, 808 ft³/s (22.88 m³/s), 7.82 in/yr (199 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,610 ft³/s (187 m³/s) Apr. 6, 1960, gage height, 4.01 ft (1.222 m); maximum gage height, 4.50 ft (1.372 m) Apr. 1, 1916, from graph based on gage readings; no flow for part of Nov. 26, 1952, Nov. 20, 1953, Oct. 25, 1956, and Sept. 9, 14, 1958, result of windstorms; minimum daily discharge, 12 ft³/s (0.34 m³/s) Aug. 30, 31, 1934, July 28, 1942.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,420 ft³/s (40.2 m³/s) Apr. 7, gage height, 1.96 ft (0.597 m); minimum, 25 ft³/s (0.71 m³/s) Aug. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	360	455	270	240	420	401	385	271	194	185	265
2	228	320	526	270	240	500	391	458	292	234	169	306
3	219	330	551	265	240	650	538	451	253	210	178	339
4	194	370	551	260	240	820	807	426	211	216	194	322
5	291	320	551	255	235	740	1280	422	257	226	204	373
6	380	310	551	250	230	680	1370	473	319	204	247	368
7	360	350	526	250	225	670	1370	510	275	240	233	362
8	340	320	444	250	215	710	1390	470	267	231	276	320
9	340	350	412	250	210	740	1300	440	292	266	312	226
10	330	433	401	250	240	720	1210	383	252	227	358	257
11	310	444	400	245	330	680	1090	340	263	171	436	237
12	272	433	390	240	400	660	708	315	334	168	418	229
13	310	466	380	240	380	720	621	304	310	193	366	266
14	236	490	350	235	360	780	668	302	282	157	377	253
15	245	514	325	230	340	950	628	300	249	154	348	265
16	301	564	370	230	320	1060	628	307	208	150	318	238
17	310	551	360	230	310	909	602	369	226	152	325	252
18	282	589	350	230	300	971	602	403	248	171	313	291
19	282	602	340	240	290	994	576	404	265	182	287	298
20	282	628	330	250	280	993	576	356	291	216	279	310
21	236	628	320	250	275	1020	563	336	285	302	279	304
22	245	615	310	240	275	918	695	294	281	343	244	291
23	291	615	300	230	272	921	669	333	230	292	228	296
24	310	576	290	220	320	901	640	351	212	281	215	274
25	320	466	290	211	340	807	610	350	238	325	182	296
26	310	514	290	190	340	764	524	338	212	293	151	291
27	330	478	290	200	340	695	404	308	203	258	108	317
28	310	455	290	210	330	708	596	278	179	196	141	345
29	301	455	290	225	---	708	509	280	177	215	261	346
30	370	455	290	230	---	502	413	289	216	220	251	397
31	412	---	275	235	---	502	---	286	---	161	204	---
TOTAL	9149	14001	11798	7381	8117	23813	22379	11261	7598	6848	8087	8934
MEAN	295	467	381	238	290	768	746	363	253	221	261	298
MAX	412	628	551	270	400	1060	1390	510	334	343	436	397
MIN	194	310	275	190	210	420	391	278	177	150	108	226
CFSM	.21	.33	.27	.17	.21	.55	.53	.26	.18	.16	.19	.21
IN.	.24	.37	.31	.20	.22	.63	.59	.30	.20	.18	.21	.24

CAL YR 1976 TOTAL 334468 MEAN 914 MAX 4370 MIN 162 CFSM .65 IN 8.87
WTR YR 1977 TOTAL 139366 MEAN 382 MAX 1390 MIN 108 CFSM .27 IN 3.70

05550500 POPLAR CREEK AT ELGIN, IL

LOCATION.--Lat 42°01'35", long 88°15'20", in SE¼NW¼ sec.19, T.41 N., R.9 E., Cook County, Hydrologic Unit 07120006, on right bank 35 ft (11 m) upstream from bridge on U.S. Highway B.R. 20 (Villa Street) in Elgin, and at mile 2.30 (3.70 km).

DRAINAGE AREA.--35.2 mi² (91.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1951 to current year.

REVISED RECORDS.--WSP 1338: 1952-53. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 716.00 ft (218.237 m) above mean sea level.

REMARKS.--Water-discharge records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--26 years, 22.9 ft³/s (0.649 m³/s), 8.83 in/yr (224 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 896 ft³/s (25.4 m³/s) Apr. 22, 1973, gage height, 5.45 ft (1.661 m); no flow for part of July 10, 1957, Sept. 14, 1958.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 117 ft³/s (3.31 m³/s) Mar. 29, gage height, 2.10 ft (0.640 m), no peak above base of 230 ft³/s (6.5 m³/s); maximum gage height, 2.20 ft (0.671 m) Mar. 4, backwater from ice; minimum daily discharge, 1.8 ft³/s (0.051 m³/s) Jan. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	3.3	2.6	2.7	2.3	16	35	16	2.5	18	2.3	45
2	2.5	2.9	2.3	2.6	2.2	12	33	13	2.2	10	2.1	20
3	2.9	2.6	2.3	2.5	2.2	9.5	29	11	2.2	6.4	2.3	10
4	3.2	2.4	2.3	2.5	2.2	44	24	12	2.2	4.8	4.4	6.8
5	12	2.4	2.3	2.8	2.2	50	24	39	10	3.5	8.5	5.8
6	18	2.4	2.6	2.7	2.1	24	20	35	7.1	3.4	5.1	5.2
7	5.2	2.5	2.6	2.6	2.1	18	16	23	4.5	3.2	4.4	4.6
8	3.8	2.5	2.6	2.5	2.1	19	14	17	3.7	4.7	16	4.2
9	3.1	2.5	2.6	2.6	2.0	26	12	14	3.5	5.0	12	3.7
10	2.9	2.2	2.6	2.7	2.0	23	11	11	3.2	3.2	7.3	4.5
11	2.9	2.1	2.4	2.6	2.0	21	9.1	9.7	9.9	3.0	6.7	3.5
12	3.2	2.0	2.4	2.5	2.5	32	8.2	8.3	6.5	3.3	6.4	4.4
13	3.2	2.0	2.6	2.4	11	24	7.8	7.3	4.2	3.3	4.1	11
14	3.5	1.9	2.4	2.2	8.0	18	7.5	5.7	3.8	3.4	3.6	15
15	3.9	2.0	2.4	2.0	6.7	13	7.1	4.9	3.3	3.4	3.0	12
16	4.0	2.1	2.5	1.9	6.2	11	8.6	4.4	3.3	4.1	4.1	22
17	3.3	2.0	2.6	1.8	5.6	10	9.6	4.6	3.1	5.0	4.4	10
18	2.5	2.0	2.6	1.9	5.3	14	9.6	3.8	3.6	8.0	3.3	20
19	3.0	2.0	3.0	2.0	5.0	12	11	3.0	3.1	5.6	2.9	16
20	2.5	2.0	7.0	2.1	4.8	15	31	2.8	2.6	3.3	2.8	12
21	2.3	2.2	3.4	2.2	4.6	23	33	2.6	2.7	3.0	3.4	8.2
22	2.4	2.3	2.7	2.3	7.0	25	39	3.9	2.9	3.1	3.3	6.4
23	2.5	2.1	2.7	2.3	14	29	29	3.1	2.9	2.7	3.3	4.9
24	2.5	2.1	2.8	2.4	41	23	22	2.6	3.2	3.0	3.7	16
25	2.6	2.2	2.8	2.4	32	18	18	2.6	2.7	4.7	3.2	25
26	2.5	3.4	2.6	2.4	24	14	15	2.4	2.7	3.4	3.2	50
27	2.4	7.1	2.5	2.4	16	16	13	2.1	2.3	2.8	4.4	34
28	2.8	5.0	2.8	2.3	12	36	22	3.3	2.9	2.2	4.0	19
29	3.1	3.0	3.3	2.3	---	96	29	4.8	2.5	3.0	8.6	12
30	3.6	2.3	3.1	2.3	---	68	20	2.7	18	3.0	6.5	9.6
31	4.9	---	2.9	2.3	---	49	---	3.3	---	2.6	5.0	---
TOTAL	119.7	77.5	86.4	73.2	229.1	808.5	567.5	278.9	127.3	138.1	154.3	420.8
MEAN	3.86	2.58	2.79	2.36	8.18	26.1	18.9	9.00	4.24	4.45	4.98	14.0
MAX	18	7.1	7.0	2.8	41	96	39	39	18	18	16	50
MIN	2.3	1.9	2.3	1.8	2.0	9.5	7.1	2.1	2.2	2.2	2.1	3.5
CFSM	.11	.07	.08	.07	.23	.74	.54	.26	.12	.13	.14	.40
IN.	.13	.08	.09	.08	.24	.85	.60	.29	.13	.15	.16	.44

CAL YR 1976 TOTAL 8568.2 MEAN 23.4 MAX 453 MIN 1.9 CFSM .67 IN 9.06
WTR YR 1977 TOTAL 3081.3 MEAN 8.44 MAX 96 MIN 1.8 CFSM .24 IN 3.26

05550500 POPLAR CREEK AT ELGIN, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to September 1977.

COOPERATION.--Chemical data were furnished by Illinois State Water Survey and reviewed by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM
OCT												
27...	1130	2.9	2300	8.1	4.9	7.0	--	491	96	60	286	55
DEC												
01...	1315	2.8	1870	7.8	.5	4.0	--	434	91	50	210	50
28...	1100	3.2	2020	7.6	.0	3.0	--	402	86	45	235	55
JAN												
25...	1130	2.4	1800	7.5	.5	4.0	--	377	79	43	238	57
FEB												
23...	1400	15	1040	8.1	.5	67	--	188	40	21	112	55
MAR												
30...	1230	71	1030	7.8	12.0	33	--	302	73	28	86	38
APR												
20...	1115	34	1050	7.9	17.0	14	--	302	70	30	97	41
MAY												
17...	1130	4.7	1550	8.6	23.0	2.0	--	447	98	48	165	44
JUN												
29...	1030	2.8	3950	8.3	21.0	7.0	8.3	856	183	97	634	61
JUL												
20...	1630	2.7	2050	8.6	31.0	7.0	4.6	449	97	50	272	56
AUG												
15...	1230	3.2	3600	8.3	23.0	8.0	11.2	548	117	62	515	67
SEP												
19...	1000	17	1395	7.8	19.5	26	--	308	71	31	137	49

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT											
27...	5.6	9.6	320	206	390	.5	17	1324	1.80	10.4	14
DEC											
01...	4.4	14	326	142	285	.5	17	1070	1.46	8.09	5
28...	5.1	16	256	196	310	.4	17	1129	1.54	9.75	6
JAN											
25...	5.3	14	326	208	275	.4	19	1070	1.46	6.93	7
FEB											
23...	3.6	11	154	76	150	.3	12	540	.73	21.9	175
MAR											
30...	2.2	5.4	154	117	154	.2	8.2	593	.81	114	65
APR											
20...	2.4	5.3	172	123	146	.2	6.0	603	.82	55.4	24
MAY											
17...	3.4	8.0	292	161	250	.4	2.7	922	1.25	11.7	8
JUN											
29...	9.4	12	330	234	1160	.8	12	2622	3.57	20.0	21
JUL											
20...	5.6	8.5	268	160	430	.4	15	1204	1.64	8.78	13
AUG											
15...	9.6	9.1	320	186	810	.4	16	1964	2.67	17.0	18
SEP											
19...	3.4	6.5	206	114	190	.3	12	691	.94	31.7	59

05550500 POPLAR CREEK AT ELGIN, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT											
27...	11	53	.31	.40	1.3	.88	2.7	<100	600	0	10
DEC											
01...	13	60	4.0	5.2	.58	.58	1.8	<100	900	0	10
28...	13	61	6.5	8.5	.39	.32	1.0	<100	700	0	0
JAN											
25...	3.1	14	13	17	1.1	.65	2.0	<100	800	0	40
FEB											
23...	3.0	13	4.1	5.4	1.2	1.2	3.7	<100	400	0	20
MAR											
30...	2.8	12	.15	.20	.13	.03	.10	<100	100	0	0
APR											
20...	3.1	14	.23	.30	.48	.48	1.5	<100	200	0	10
MAY											
17...	.20	.90	.46	.60	.94	.81	2.5	<100	500	0	0
JUN											
29...	9.0	40	.00	.00	1.3	1.2	3.9	<100	700	0	0
JUL											
20...	3.7	17	.07	.10	1.1	1.0	3.3	<100	500	0	0
AUG											
15...	6.5	29	.00	.00	1.5	1.5	4.8	<100	600	0	0
SEP											
19...	2.7	12	.07	.10	1.3	1.2	3.7	<100	200	0	0

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT										
27...	0	400	10	<50	20	40	30	70	370	10
DEC										
01...	10	200	20	<50	20	90	90	90	1190	10
28...	10	200	100	<50	30	100	100	110	1230	10
JAN										
25...	20	200	50	<50	20	160	160	150	1050	20
FEB										
23...	10	5800	180	<50	0	360	150	<50	420	20
MAR										
30...	10	2100	90	<50	0	130	50	<50	240	20
APR										
20...	0	900	50	<50	0	110	60	<50	360	10
MAY										
17...	10	600	10	<50	10	30	10	<50	670	0
JUN										
29...	20	400	100	<50	20	110	0	70	970	0
JUL										
20...	10	600	60	<50	10	90	60	<50	480	20
AUG										
15...	0	400	20	<50	10	80	60	<50	520	0
SEP										
19...	0	1900	60	<50	0	140	60	<50	280	10

05551200 FERSON CREEK NEAR ST. CHARLES, IL

LOCATION.--Lat 41°56'00", long 88°20'30", in NE¼SE¼ sec.20, T.40 N., R.8 E., Kane County, Hydrologic Unit 07120007, on right bank at upstream side of bridge on Randall Road, 2.4 mi (3.9 km) northwest of St. Charles, and at mile 2.15 (3.46 km).

DRAINAGE AREA.--51.7 mi² (133.9 km²).

PERIOD OF RECORD.--December 1960 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 704.84 ft (214.835 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--16 years (water years 1962-77), 36.9 ft³/s (1.045 m³/s), 9.69 in/yr (246 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,620 ft³/s (45.9 m³/s) Feb. 20, 1971, gage height, 7.64 ft (2.329 m); maximum gage height, 9.66 ft (2.944 m) Feb. 8, 1965, from floodmark, ice jam; minimum discharge, 0.1 ft³/s (0.003 m³/s) on several days in 1961, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 156 ft³/s (4.42 m³/s) Mar. 29, gage height, 3.05 ft (0.930 m), no peak above base of 300 ft³/s (8.5 m³/s); maximum gage height, 3.49 ft (1.064 m) Feb. 24, backwater from ice; minimum discharge, 0.31 ft³/s (0.009 m³/s) part or all of each day July 31 to Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	6.5	3.4	1.6	2.0	15	35	11	3.8	25	.31	15
2	2.3	5.2	3.2	1.5	2.0	13	34	10	2.7	8.9	.31	20
3	1.8	4.5	3.0	1.5	1.9	11	31	9.2	2.1	5.4	.33	11
4	2.6	4.5	2.9	1.5	1.8	52	26	9.7	1.5	4.2	.39	7.3
5	7.0	4.6	2.7	1.6	1.7	59	30	45	4.7	3.2	.45	5.3
6	19	4.6	2.6	1.7	1.8	30	26	34	8.2	1.7	1.7	4.4
7	10	4.6	2.5	1.7	2.0	19	22	22	5.7	.97	2.8	3.7
8	6.6	4.2	2.6	1.6	2.0	20	19	16	4.7	.67	31	2.5
9	4.7	4.3	2.7	1.6	1.9	26	17	12	3.5	.60	24	2.0
10	3.8	4.3	2.9	1.5	1.9	24	16	11	2.3	.64	13	1.7
11	3.4	4.7	2.7	1.5	2.0	22	14	8.7	4.0	.65	13	1.3
12	2.6	4.0	2.4	1.7	2.2	36	13	7.3	5.7	.66	16	1.3
13	2.3	4.4	2.3	1.6	5.0	37	11	6.5	5.0	.77	8.3	4.8
14	2.3	4.8	2.2	1.6	7.0	24	11	5.4	4.4	.69	5.6	11
15	2.3	4.9	2.3	1.6	8.0	19	11	5.0	3.5	.54	4.1	12
16	2.6	4.4	2.5	1.5	7.2	15	10	5.4	1.7	.45	3.9	22
17	2.8	4.6	2.6	1.4	6.6	12	9.7	6.1	1.5	.44	3.9	15
18	3.4	4.4	2.7	1.5	6.2	13	9.2	6.9	1.5	1.6	3.2	30
19	3.4	4.6	3.0	1.5	6.1	13	9.3	5.4	2.5	4.9	2.4	30
20	4.2	4.4	2.9	1.5	6.0	13	13	3.2	2.3	3.0	1.9	18
21	4.4	4.3	2.3	1.6	6.2	18	14	4.4	1.1	2.0	2.5	13
22	4.6	4.1	2.2	1.6	6.7	19	16	57	.70	1.4	2.5	11
23	4.2	5.0	2.0	1.7	35	20	14	22	.60	1.1	1.8	9.7
24	4.2	4.7	1.9	1.7	70	19	12	13	.70	.89	1.4	15
25	4.2	4.7	2.0	1.7	32	15	11	8.2	.70	.70	1.3	20
26	4.2	6.4	2.1	1.6	22	13	9.7	6.1	.60	.67	1.1	58
27	4.3	7.9	2.1	1.6	14	12	9.2	4.7	.51	.70	.79	36
28	4.2	5.7	2.0	1.7	13	22	12	4.0	.51	.56	.77	23
29	4.6	3.9	1.9	1.9	---	131	15	6.9	.37	.46	2.4	17
30	5.0	3.0	1.8	2.0	---	79	13	6.9	15	.37	3.9	15
31	6.4	---	1.7	2.1	---	48	---	5.0	---	.35	2.7	---
TOTAL	139.7	142.2	76.1	50.4	274.2	869	493.1	378.0	92.09	74.18	157.75	436.0
MEAN	4.51	4.74	2.45	1.63	9.79	28.0	16.4	12.2	3.07	2.39	5.09	14.5
MAX	19	7.9	3.4	2.1	70	131	35	57	15	25	31	58
MIN	1.8	3.0	1.7	1.4	1.7	11	9.2	3.2	.37	.35	.31	1.3
CFSM	.09	.09	.05	.03	.19	.54	.32	.24	.06	.05	.10	.28
IN.	.10	.10	.05	.04	.20	.63	.35	.27	.07	.05	.11	.31

CAL YR 1976 TOTAL 10025.97 MEAN 27.4 MAX 600 MIN .42 CFSM .53 IN 7.21
WTR YR 1977 TOTAL 3182.72 MEAN 8.72 MAX 131 MIN .31 CFSM .17 IN 2.29

05551700 BLACKBERRY CREEK NEAR YORKVILLE, IL

LOCATION.--Lat 41°40'18", long 88°26'29", in SE¼NW¼ sec.21, T.37 N., R.7 E., Kendall County, Hydrologic Unit 07120007, on right bank 300 ft (91 m) upstream from bridge on State Highway 47, 2.0 mi (3.2 km) north of Yorkville and at mile 3.35 (5.39 km).

DRAINAGE AREA.--70.2 mi² (181.8 km²).

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.- Water-stage recorder. Datum of gage is 612.34 ft (186.641 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--17 years, 47.2 ft³/s (1.337 m³/s), 9.13 in/yr (232 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,320 ft³/s (37.4 m³/s) May 17, 1974, gage height, 8.58 ft (2.615 m); minimum, 0.1 ft³/s (0.003 m³/s) Dec. 7, 1962, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 172 ft³/s (4.87 m³/s) July 1, gage height, 4.42 ft (1.347 m), no peak above base of 240 ft³/s (6.8 m³/s); minimum daily, 3.7 ft³/s (0.10 m³/s) Jan. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	8.6	6.3	4.5	5.1	16	44	25	13	124	5.5	46
2	5.4	9.6	6.6	4.3	5.0	15	44	23	11	49	5.2	90
3	5.5	8.2	5.8	4.3	4.6	14	43	21	9.3	26	5.5	52
4	5.4	8.5	6.0	4.4	4.4	18	36	20	8.9	18	6.0	34
5	8.7	8.2	6.0	4.5	4.4	45	36	45	15	14	8.1	25
6	27	8.2	6.1	4.5	4.7	33	30	47	47	12	8.0	18
7	14	9.4	5.9	4.6	4.9	23	27	34	29	11	7.0	17
8	10	7.4	5.9	4.5	5.1	25	23	27	19	9.8	30	15
9	7.7	8.3	6.1	4.4	5.2	31	21	26	16	9.5	60	13
10	7.3	8.3	6.8	4.2	5.1	29	20	21	13	8.7	54	12
11	6.9	8.7	6.4	4.0	5.6	25	18	18	21	8.6	37	11
12	7.0	7.1	5.7	3.9	6.6	34	17	17	25	9.0	22	11
13	6.9	8.0	5.4	4.0	7.6	46	16	16	19	8.2	18	17
14	6.9	7.4	5.4	4.1	12	34	16	15	14	7.6	15	23
15	7.1	8.1	5.6	4.0	17	27	15	19	12	7.3	11	28
16	6.9	8.4	6.0	3.8	16	24	15	22	11	8.1	11	52
17	7.4	7.6	6.3	3.7	11	19	14	21	11	8.1	10	43
18	7.6	7.3	6.6	3.8	11	23	14	17	12	9.7	9.6	45
19	8.0	7.7	6.8	4.0	11	25	16	15	11	17	8.4	51
20	9.1	7.2	6.2	4.0	11	26	35	13	9.5	10	9.2	40
21	8.3	7.8	5.4	4.1	13	33	71	12	8.7	8.3	11	31
22	8.2	6.3	5.1	4.0	13	37	53	23	8.2	7.5	10	25
23	9.3	5.6	5.4	3.9	20	38	39	37	8.0	6.9	9.6	23
24	9.0	8.3	5.2	3.9	60	36	30	20	8.0	6.9	8.9	33
25	8.7	7.8	5.4	3.8	64	28	24	15	7.9	7.5	8.4	49
26	9.1	9.9	5.5	4.0	29	24	22	12	7.4	6.5	8.3	42
27	7.9	10	5.4	4.3	20	24	19	11	7.1	5.9	8.6	38
28	7.8	5.9	5.2	4.7	18	38	34	10	6.9	5.6	8.4	31
29	7.8	6.8	5.0	5.1	---	133	35	38	6.9	5.9	9.8	27
30	8.4	5.8	4.8	5.2	---	97	28	26	33	5.8	10	25
31	10	---	4.7	5.3	---	60	---	17	---	5.7	8.5	---
TOTAL	264.7	236.4	179.0	131.8	394.3	1080	855	683	428.8	448.1	442.0	967
MEAN	8.54	7.88	5.77	4.25	14.1	34.8	28.5	22.0	14.3	14.5	14.3	32.2
MAX	27	10	6.8	5.3	64	133	71	47	47	124	60	90
MIN	5.4	5.6	4.7	3.7	4.4	14	14	10	6.9	5.6	5.2	11
CFSM	.12	.11	.08	.06	.20	.50	.41	.31	.20	.21	.20	.46
IN.	.14	.13	.09	.07	.21	.57	.45	.36	.23	.24	.23	.51

CAL YR 1976 TOTAL 13292.8 MEAN 36.3 MAX 573 MIN 4.2 CFSM .52 IN 7.04
WTR YR 1977 TOTAL 6110.1 MEAN 16.7 MAX 133 MIN 3.7 CFSM .24 IN 3.24

05552500 FOX RIVER AT DAYTON, IL

LOCATION.--Lat 41°23'14", long 88°47'21", in SE¼ sec.29, T.34 N., R.4 E., La Salle County, Hydrologic Unit 07120007, on right bank in tailwater of plant of North Counties Hydro-Electric Co. in Dayton, 5.6 mi (9.0 km) upstream from mouth.

DRAINAGE AREA.--2,642 mi^2 (6,843 km^2).

PERIOD OF RECORD.--November 1914 to current year. Prior to April 1925, published as "at Wedron." Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 730: 1931. WSP 1208: 1930, 1935, 1939. WSP 1308: 1916(M), 1922(M), 1926-31(M), 1934-40(M), 1946-47(M). WDR IL-75: Drainage area. WDR IL-76: 1969.

GAGE.--Water-stage recorder. Datum of gage is 462.30 ft (140.909 m) above mean sea level. Prior to Apr. 13, 1925, nonrecording gage at site 4 mi (6 km) upstream at datum 496.80 ft (151.425 m) above Memphis datum. Apr. 13, 1925, to Sept. 30, 1942, nonrecording gage at present site at datum 7.70 ft (2.347 m) below mean sea level. Oct. 1, 1942, to Apr. 10, 1951, nonrecording gage at present site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--62 years (water years 1916-77), 1,621 ft^3/s (45.91 m^3/s), 8.33 in/yr (212 mm/yr); discharge for site at Wedron adjusted for difference in drainage area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,100 ft^3/s (1,330 m^3/s) Oct. 11, 1954, gage height, 24.63 ft (7.507 m), from rating curve extended above 15,000 ft^3/s (425 m^3/s) on basis of computation of peak flow over dam; maximum gage height, 36.47 ft (11.116 m) Jan. 25, 1960, ice jam; minimum daily discharge, 1.0 ft^3/s (0.028 m^3/s) Aug. 29, 1934, when turbines were shut down; minimum daily with plant operating, 78 ft^3/s (2.21 m^3/s) Oct. 29, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,380 ft^3/s (95.7 m^3/s) Sept. 1, gage height, 8.56 ft (2.609 m), no peak above base of 7,200 ft^3/s (200 m^3/s); minimum daily, 241 ft^3/s (6.83 m^3/s) July 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	460	621	634	480	400	580	1180	710	414	1670	329	1690
2	419	634	853	480	410	580	1070	601	450	1040	316	1520
3	414	539	654	480	420	800	960	601	370	562	319	1120
4	414	516	654	470	430	1090	906	830	355	507	337	787
5	429	539	936	460	430	1360	1160	1200	384	465	351	715
6	787	545	898	460	430	1760	1620	1360	627	325	538	[illegible]
7	1000	499	921	450	430	1480	1840	1010	528	365	429	[illegible]
8	801	493	800	450	420	1140	1800	906	545	335	541	568
9	654	533	780	450	410	1230	1760	823	439	320	1400	558
10	563	516	760	450	400	1320	1700	766	415	355	1010	463
11	499	522	660	450	550	1200	1570	717	414	355	1070	482
12	471	634	540	440	720	1290	1470	588	825	345	868	389
13	414	621	590	430	680	1490	1150	516	579	316	883	483
14	399	607	560	420	650	1400	890	528	532	245	766	724
15	466	661	540	410	600	1260	860	466	513	241	614	958
16	389	744	520	380	570	1220	860	499	426	340	661	1120
17	370	717	500	350	560	1190	830	528	400	450	648	1010
18	429	758	500	330	540	1290	801	499	[illegible]	439	621	1590
19	455	773	490	400	520	1370	787	557	407	439	551	1480
20	444	794	480	450	500	1380	1100	563	375	414	563	1240
21	434	801	520	470	500	1470	1210	563	257	461	641	942
22	429	816	420	480	500	1510	1210	601	446	376	588	850
23	414	830	440	490	470	1430	1090	594	394	453	551	811
24	370	794	480	460	600	1370	992	588	360	420	522	2300
25	466	838	430	440	700	1290	921	533	345	458	460	2410
26	439	794	520	410	680	1200	860	510	287	415	466	1740
27	516	724	480	390	640	1140	808	510	283	407	429	1530
28	476	751	450	370	600	1190	621	389	292	392	384	1260
29	499	466	480	350	---	2130	758	601	269	343	419	1010
30	499	434	450	370	---	2320	853	594	370	306	460	974
31	482	---	470	380	---	1640	---	545	---	324	482	---
TOTAL	15301	19514	18400	13300	14760	41120	33637	20296	12709	13863	18217	31882
MEAN	494	650	594	429	527	1326	1121	655	424	447	588	1063
MAX	1000	838	936	490	720	2320	1840	1360	825	1670	1400	2410
MIN	370	434	420	330	400	580	621	389	257	241	316	389
CFSM	.19	.25	.23	.16	.20	.50	.42	.25	.16	.17	.22	.40
IN.	.22	.27	.26	.19	.21	.58	.47	.29	.18	.20	.26	.45

CAL YR 1976 TOTAL 647621 MEAN 1769 MAX 13500 MIN 283 CFSM .67 IN 9.12
WTR YR 1977 TOTAL 252999 MEAN 693 MAX 2410 MIN 241 CFSM .26 IN 3.56

05553700 ILLINOIS RIVER AT STARVED ROCK, IL

LOCATION.--Lat 41°19'29", long 88°59'02", in SW¼SW¼ sec.15, T.33 N., R.2 E., La Salle County, Hydrologic Unit 07130001, on upstream side of Starved Rock navigation lock and dam, 4.5 mi (7.2 km) upstream from Vermilion River and 7.5 mi (12.1 km) downstream from Fox River.

DRAINAGE AREA.--11,056 mi² (28,635 km²).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1967 to September 1977 (discontinued).

REVISED RECORDS.--WDR IL-76: Drainage area.

INSTRUMENTATION.--Temperature recorder since June 1967.

REMARKS.--No record Oct. 11, Aug. 2-22, Sept. 13-20 due to clock stoppages.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 32.0°C July 22, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 32.0°C July 22; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.5	19.0	13.0	10.0	4.0	1.5	3.5	1.0	2.0	0.0	5.0	4.0
2	21.5	18.5	11.0	9.0	4.0	0.0	2.5	0.5	3.0	0.0	6.0	4.0
3	21.0	19.0	11.0	9.0	5.0	0.0	1.5	0.0	1.0	0.0	5.0	3.5
4	21.0	19.5	10.5	8.5	2.5	0.0	2.0	0.0	1.0	0.0	4.0	3.0
5	20.5	19.0	10.0	7.0	3.5	0.5	1.5	0.0	2.5	0.5	5.0	4.0
6	21.0	18.0	9.5	7.5	1.5	0.5	1.5	0.5	4.0	0.0	5.0	3.0
7	20.0	17.5	10.0	5.5	4.5	1.0	3.0	0.5	4.5	0.0	5.0	3.0
8	19.5	16.5	10.0	5.0	3.5	1.5	2.5	1.0	2.0	0.0	5.0	3.0
9	19.0	16.5	7.5	5.0	2.5	0.0	4.0	1.5	2.0	0.0	6.0	4.5
10	19.0	16.0	8.5	6.0	2.5	0.5	2.5	1.0	3.0	0.0	8.5	6.5
11	---	---	8.5	6.0	4.5	1.5	4.0	1.0	2.5	0.0	9.5	8.0
12	17.0	15.0	10.0	5.0	3.0	1.0	4.0	1.0	4.0	2.5	11.0	9.0
13	18.0	16.0	9.5	5.0	4.0	1.5	3.0	0.5	4.5	4.0	12.0	11.0
14	18.5	15.0	9.0	5.0	1.5	0.0	2.0	0.0	5.0	4.0	12.0	11.0
15	16.0	14.5	9.0	5.0	2.5	1.5	2.0	1.0	6.5	4.5	13.0	12.0
16	16.5	13.5	8.5	5.0	3.5	2.5	5.5	1.0	7.0	4.5	13.5	11.5
17	15.0	13.0	7.0	5.0	3.5	2.0	4.0	1.0	6.5	3.5	13.0	11.5
18	16.5	11.0	7.0	4.5	4.5	2.5	3.5	0.0	5.5	4.0	12.5	11.0
19	13.5	12.0	7.0	5.0	4.5	3.0	3.0	0.5	6.0	5.0	12.0	10.0
20	14.5	11.5	7.5	5.0	4.0	3.5	2.0	0.0	6.5	5.0	10.5	9.5
21	12.5	9.5	7.0	5.0	4.5	1.5	2.0	0.0	6.5	4.5	11.0	9.0
22	12.0	9.0	6.0	3.5	2.5	1.0	4.0	0.0	5.5	4.0	9.5	8.0
23	11.5	9.5	6.0	3.0	3.0	1.5	2.0	0.0	6.0	5.0	9.5	8.0
24	11.5	10.0	6.0	3.0	3.0	0.0	1.0	0.0	7.0	5.5	10.0	9.0
25	11.0	9.5	5.0	3.0	2.0	0.5	1.0	0.0	6.0	5.5	10.0	9.0
26	12.0	10.0	5.5	4.5	3.0	1.0	2.0	0.0	6.5	5.0	11.0	9.5
27	12.0	10.0	6.0	4.5	3.0	0.5	3.0	1.0	6.0	5.5	11.5	10.0
28	13.0	9.5	8.0	3.0	3.0	1.5	4.0	1.5	5.0	4.0	12.0	10.0
29	11.0	9.0	7.0	2.0	4.5	1.5	3.5	1.0	---	---	13.0	11.0
30	11.0	9.0	4.5	1.5	3.0	1.0	3.0	1.0	---	---	14.5	13.0
31	11.0	9.5	---	---	5.0	0.5	2.5	0.5	---	---	13.5	12.5
MONTH	21.5	9.0	13.0	1.5	5.0	0.0	5.5	0.0	7.0	0.0	14.5	3.0

05553700 ILLINOIS RIVER AT STARVED ROCK, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.5	11.5	18.0	16.0	25.0	23.0	27.0	25.0	29.0	25.0	28.0	24.5
2	12.5	11.0	18.0	17.0	24.0	23.0	27.0	25.0	---	---	27.0	25.0
3	14.0	12.5	19.0	17.0	25.0	23.0	27.0	25.0	---	---	27.0	24.0
4	14.0	12.5	19.0	18.0	25.0	23.0	27.0	26.0	---	---	26.0	24.0
5	13.0	12.0	19.0	16.0	25.0	23.0	28.0	25.0	---	---	26.0	24.0
6	12.0	11.0	20.0	19.0	25.0	23.0	29.0	26.0	---	---	27.0	23.0
7	11.0	10.0	21.0	19.0	25.0	22.0	29.0	27.0	---	---	27.0	24.0
8	12.0	10.0	21.0	18.0	24.0	22.0	30.0	28.0	---	---	27.5	23.5
9	12.0	11.0	20.0	17.0	25.0	23.0	30.0	28.0	---	---	26.0	24.0
10	13.0	11.0	19.0	17.5	24.0	23.0	30.0	27.0	---	---	27.0	23.0
11	13.0	12.0	19.0	17.0	24.0	22.0	29.0	27.0	---	---	27.0	22.0
12	15.0	13.0	19.0	17.0	24.0	22.0	30.0	27.5	---	---	24.0	23.0
13	16.0	14.5	20.0	18.0	23.0	21.0	30.0	28.0	---	---	---	---
14	17.0	15.0	21.0	19.0	24.0	22.0	30.0	28.0	---	---	---	---
15	18.0	16.0	21.0	20.0	25.0	22.0	30.0	28.0	---	---	---	---
16	18.0	16.0	22.0	20.0	24.0	22.0	31.0	29.0	---	---	---	---
17	20.0	18.0	23.0	21.0	25.0	24.0	30.0	28.0	---	---	---	---
18	20.0	19.0	23.0	21.0	26.0	24.0	30.0	28.0	---	---	---	---
19	20.0	19.0	24.0	22.0	27.0	24.0	30.0	28.0	---	---	---	---
20	21.0	20.0	25.0	24.0	27.0	25.0	30.0	28.5	---	---	---	---
21	21.0	20.0	25.0	24.0	27.0	25.0	30.0	29.0	---	---	23.0	18.5
22	21.0	19.0	25.0	23.0	26.5	25.0	32.0	29.0	---	---	22.0	19.0
23	20.0	18.0	25.0	24.0	26.5	25.0	31.0	28.5	25.0	24.0	22.0	19.0
24	20.0	18.0	25.5	23.0	26.0	24.0	30.0	28.0	27.0	24.0	22.0	19.5
25	19.0	17.0	26.0	24.0	27.0	25.0	30.0	28.0	27.0	23.5	22.5	19.5
26	18.0	16.0	27.0	25.0	28.0	25.5	31.0	28.0	26.0	24.0	23.0	20.0
27	18.0	16.0	27.0	25.0	28.0	26.0	30.5	27.5	27.0	24.0	23.0	19.5
28	18.0	16.0	27.0	25.0	28.0	26.0	29.0	27.0	27.0	25.0	23.0	19.0
29	19.0	16.0	28.0	26.0	29.0	25.0	29.0	26.5	27.0	25.0	22.0	19.0
30	18.0	16.0	28.0	25.0	28.0	25.0	29.5	27.0	28.0	25.0	22.0	19.5
31	---	---	28.0	25.0	---	---	29.0	26.0	28.0	26.0	---	---
MONTH	21.0	10.0	28.0	16.0	29.0	21.0	32.0	25.0	29.0	23.5	28.0	18.5
YEAR	32.0	0.0										

05554500 VERMILION RIVER AT PONTIAC, IL

LOCATION.--Lat 40°52'40", long 88°38'10", in SW¼ sec.22, T.28 N., R.5 E., Livingston County, Hydrologic Unit 07130001, near center of span on downstream side of Vermilion Street Bridge in Pontiac, 0.1 mi (0.2 km) upstream from Illinois Central Gulf Railroad bridge and State Highway 116, 0.8 mi (1.3 km) upstream from Turtle Creek, and 1.5 mi (2.4 km) downstream from Norfolk & Western Railway bridge.

DRAINAGE AREA.--579 mi² (1,500 km²).

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 619.45 ft (188.808 m) above mean sea level. Prior to Nov. 8, 1965, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. An average of 1.4 ft³/s (0.040 m³/s), diverted 0.5 mi (0.8 km) above station for water supply of city of Pontiac, is not included in records. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--35 years, 370 ft³/s (10.48 m³/s), 8.68 in/yr (220 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,600 ft³/s (385 m³/s) July 10, 1951, gage height, 17.90 ft (5.456 m), from graph based on gage readings; no flow Oct. 13, 14, 1953.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (57 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 7	Unknown	2610	73.9	7.58	2.310	Sept. 19	1830	2010	56.9	6.67	2.033
Aug. 11	1730	*2700	76.5	*7.71	2.350						

Minimum daily discharge, 2.6 ft³/s (0.074 m³/s) Jan. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	9.5	7.0	3.7	3.0	56	266	26	101	25	22	73
2	6.9	8.8	6.5	3.6	3.0	49	222	25	93	26	20	72
3	7.4	7.9	6.0	3.5	3.0	40	238	27	81	25	15	86
4	7.4	7.0	5.6	3.5	2.9	45	212	50	65	24	13	89
5	9.3	7.5	5.2	3.5	2.8	58	224	300	59	23	13	183
6	14	7.0	5.2	3.4	2.8	64	239	1000	57	21	17	244
7	19	6.7	5.0	3.3	2.8	62	191	2000	61	18	282	165
8	20	8.3	5.0	3.2	2.8	64	167	1700	64	17	1380	108
9	19	6.8	5.0	3.1	3.0	85	140	1100	67	16	1980	86
10	13	6.4	6.5	3.0	3.5	113	120	799	80	16	1240	70
11	10	6.2	6.0	2.8	6.0	112	113	611	74	16	2450	58
12	6.9	6.2	5.6	2.6	14	124	105	489	66	16	2320	49
13	5.4	6.1	5.4	2.6	10	185	89	411	64	16	1580	107
14	6.3	6.6	5.2	2.8	8.0	175	88	362	57	16	963	1160
15	4.9	7.0	5.0	2.8	7.0	101	89	323	49	16	729	1460
16	4.7	6.9	5.0	2.8	5.4	69	82	294	44	19	627	1410
17	5.1	6.1	5.0	2.8	4.7	58	72	254	42	26	475	1220
18	5.5	6.3	5.0	2.8	4.5	46	65	238	42	28	335	1090
19	5.2	5.4	6.0	2.8	4.2	59	61	220	43	26	242	1820
20	4.9	5.8	7.0	2.8	4.0	81	59	216	40	26	191	1690
21	4.9	5.3	8.0	3.0	5.0	83	58	213	35	25	155	1130
22	5.1	5.1	6.5	3.0	10	101	57	185	28	26	130	832
23	5.9	5.8	5.5	3.0	20	96	55	173	28	22	106	682
24	7.3	6.2	5.3	3.0	91	168	47	170	27	19	94	1010
25	7.9	6.3	5.0	3.0	216	229	43	181	27	115	85	1350
26	8.6	6.6	4.8	3.0	127	207	38	199	27	249	77	1020
27	8.6	8.5	4.7	2.9	94	164	35	172	26	117	71	763
28	8.3	8.7	4.7	2.8	53	166	33	152	25	50	72	605
29	7.2	9.1	4.5	2.8	---	487	30	194	25	30	77	504
30	7.7	8.0	4.5	2.9	---	584	27	202	25	25	74	456
31	8.0	---	4.0	3.0	---	374	---	145	---	24	76	---
TOTAL	263.2	208.1	169.7	93.8	713.4	4305	3265	12431	1522	1118	15911	19592
MEAN	8.49	6.94	5.47	3.03	25.5	139	109	401	50.7	36.1	513	653
MAX	20	9.5	8.0	3.7	216	584	266	2000	101	249	2450	1820
MIN	4.7	5.1	4.0	2.6	2.8	40	27	25	25	16	13	49
CFSM	.02	.01	.009	.005	.04	.24	.19	.69	.09	.06	.89	1.13
IN.	.02	.01	.01	.01	.05	.28	.21	.80	.10	.07	1.02	1.26

CAL YR 1976 TOTAL 142881.1 MEAN 390 MAX 6380 MIN 4.0 CFSM .67 IN 9.18
WTR YR 1977 TOTAL 59592.2 MEAN 163 MAX 2450 MIN 2.6 CFSM .28 IN 3.83

05555300 VERMILION RIVER NEAR LEONORE, IL

LOCATION.--Lat 41°12'30", long 88°55'51", in SW¼SW¼ sec.30, T.32 N., R.3 E., La Salle County, Hydrologic Unit 07130002, on downstream left pier of county highway bridge, 3 mi (5 km) northeast of Leonore, 6.2 mi (10.0 km) downstream from Otter Creek, 8 mi (13 km) northwest of Streator, and 16.7 mi (26.9 km) upstream from mouth.

DRAINAGE AREA.--1,251 mi^2 (3,240 km^2).

PERIOD OF RECORD.--May 1931 to current year. Prior to October 1971, published as "at Lowell."

REVISED RECORDS.--WSP 745: 1931-32. WSP 1308: 1932(M), 1935-38(M), 1940(M), 1942(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 520.58 ft (158.673 m) above mean sea level. Prior to Aug. 20, 1952, nonrecording gage at site 6.8 mi (10.9 km) downstream at datum 19.97 ft (6.086 m) lower. Aug. 20, 1952, to Sept. 30, 1971, nonrecording gage at site 6.7 mi (10.8 km) downstream at datum 19.97 ft (6.086 m) lower.

REMARKS.--Records fair except those for period of no gage-height record, Nov. 27 to Mar. 1, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--46 years, 763 ft^3/s (21.61 m^3/s), 8.28 in/yr (210 mm/yr); discharge for site at Lowell adjusted for difference in drainage area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,500 ft^3/s (949 m^3/s) July 15, 1958, gage height, 15.30 ft (4.663 m), from graph based on gage readings, site and datum then in use; minimum, 5.0 ft^3/s (0.14 m^3/s) Feb. 1-5, 1961, Dec. 21-24, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,030 ft^3/s (114 m^3/s) Sept. 18, gage height, 10.14 ft (3.091 m), no peak above base of 5,000 ft^3/s (140 m^3/s); minimum daily, 5.2 ft^3/s (0.15 m^3/s) Jan. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	15	17	8.0	6.6	120	580	90	198	65	48	1410
2	24	13	14	7.7	6.8	106	465	90	157	52	36	652
3	19	12	13	7.4	6.4	164	390	96	141	51	29	331
4	17	12	12	7.4	6.2	148	381	283	132	49	24	238
5	18	11	11	7.4	6.0	146	361	1100	118	49	24	205
6	38	11	11	7.2	6.0	132	361	2050	115	48	27	254
7	21	12	10	7.0	6.0	153	349	2930	109	42	40	320
8	27	12	10	6.8	5.8	160	287	2770	122	35	560	240
9	24	12	10	6.6	6.4	163	250	1880	129	35	2170	181
10	27	12	14	6.4	7.0	191	217	1290	120	33	2000	142
11	29	12	12	6.2	13	208	192	928	150	32	1990	117
12	26	12	12	5.8	25	244	182	714	150	49	2800	107
13	20	12	11	5.6	30	284	164	571	132	45	2280	168
14	14	12	11	5.4	20	298	150	490	122	36	1610	292
15	13	12	10	5.4	15	253	155	429	113	34	1110	2020
16	12	12	10	5.4	12	160	157	373	106	174	888	2350
17	11	12	11	5.2	10	141	146	334	102	94	710	2180
18	11	12	11	5.4	9.5	148	135	283	120	83	532	3300
19	12	14	12	5.6	9.0	137	125	257	104	94	383	3670
20	14	14	13	6.0	8.5	150	141	232	90	90	290	3250
21	12	14	14	6.4	11	177	130	223	86	62	231	2420
22	12	14	13	6.4	20	200	122	377	82	47	195	1790
23	12	14	12	6.4	40	238	115	263	70	36	172	1450
24	14	14	11	6.4	100	297	109	226	56	37	154	1860
25	14	14	10	6.4	190	377	98	235	59	57	128	3030
26	14	15	10	6.4	300	411	92	211	54	35	108	2500
27	12	16	10	6.2	160	357	92	217	52	255	95	1870
28	12	17	9.8	6.0	110	353	96	198	52	170	84	1490
29	12	18	9.5	6.0	---	825	94	192	52	111	113	1220
30	12	19	9.0	6.2	---	1160	90	297	63	75	163	1100
31	20	---	8.6	6.4	---	864	---	241	---	64	162	---
TOTAL	551	401	351.9	197.1	1146.2	8765	6226	19870	3156	2139	19156	40157
MEAN	17.8	13.4	11.4	6.36	40.9	283	208	641	105	69.0	618	1339
MAX	38	19	17	8.0	300	1160	580	2930	198	255	2800	3670
MIN	11	11	8.6	5.2	5.8	106	90	90	52	32	24	107
CFSM	.01	.01	.009	.005	.03	.23	.17	.51	.08	.06	.49	1.07
IN.	.02	.01	.01	.01	.03	.26	.19	.59	.09	.06	.57	1.19

CAL YR 1976 TOTAL 294281.9 MEAN 804 MAX 12000 MIN 8.6 CFSM .64 IN 8.75
WTR YR 1977 TOTAL 102116.2 MEAN 280 MAX 3670 MIN 5.2 CFSM .22 IN 3.04

05556500 BIG BUREAU CREEK AT PRINCETON, IL

LOCATION.--Lat 41°21'55", long 89°29'55", in SW¼SE¼ sec.18, T.16 N., R.9 E., Bureau County, Hydrologic Unit 07130001, on right bank 500 ft (152 m) downstream from bridge on U.S. Highways 6 and 34, 0.6 mi (1.0 km) downstream from Epperson Run and 1.5 mi (2.4 km) west of Princeton.

DRAINAGE AREA.--196 mi^2 (508 km^2).

PERIOD OF RECORD.--March 1936 to current year. Prior to October 1974, published as Bureau Creek at Princeton.

REVISED RECORDS.--WSP 1175: 1940-41, 1948. WSP 1308: 1942(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 555.24 ft (169.237 m) above mean sea level (levels by Corps of Engineers). Prior to July 18, 1940, nonrecording gage at bridge 400 ft (122 m) upstream at datum 30.00 ft (9.144 m) lower. July 18, 1940, to Sept. 30, 1944, water-stage recorder at site 500 ft (152 m) upstream at present datum.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--41 years, 127 ft^3/s (3.597 m^3/s), 8.80 in/yr (224 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft^3/s (354 m^3/s) May 17, 1974, gage height, 16.01 ft (4.880 m), from rating curve extended above 11,800 ft^3/s (334 m^3/s); no flow during January 1940 and for several days in October and November 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 554 ft^3/s (15.7 m^3/s) May 5, gage height, 4.30 ft (1.311 m), no peak above base of 1,800 ft^3/s (51 m^3/s); minimum daily, 1.0 ft^3/s (0.028 m^3/s) Jan. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	1.6	1.9	1.2	1.9	14	37	6.5	2.7	229	2.7	41
2	2.7	1.7	1.9	1.3	1.9	12	33	4.1	3.0	77	2.7	29
3	3.0	1.9	1.9	1.6	1.8	14	26	12	2.7	33	3.4	22
4	2.4	2.2	1.9	1.7	1.7	13	29	144	2.4	20	4.9	19
5	11	2.3	1.9	1.7	1.5	12	26	320	2.3	13	5.4	20
6	9.3	2.2	1.9	1.6	1.2	10	25	186	2.4	9.0	7.6	17
7	3.8	2.0	1.9	1.6	1.5	11	24	107	2.7	6.7	5.9	13
8	2.4	2.4	1.9	1.5	1.6	12	20	68	8.0	5.0	17	9.9
9	2.7	2.3	1.9	1.4	1.7	13	17	50	4.4	4.3	16	7.1
10	2.4	2.2	1.9	1.4	1.9	16	15	39	3.2	2.9	16	4.6
11	2.4	2.0	1.9	1.3	2.5	22	13	32	3.6	2.6	7.0	3.5
12	2.6	1.9	1.9	1.3	11	61	12	26	6.0	2.4	13	5.3
13	2.3	1.8	1.9	1.4	9.8	48	11	22	10	2.1	14	11
14	2.6	1.7	1.9	1.5	8.0	37	10	19	12	2.1	7.6	5.6
15	2.6	1.8	2.0	1.4	7.2	24	9.2	16	9.2	2.4	3.8	22
16	2.7	1.8	2.0	1.1	7.6	17	12	32	6.9	6.6	6.2	17
17	2.6	1.8	1.9	1.0	7.0	14	11	21	6.7	11	7.6	29
18	2.4	1.8	1.9	1.2	6.6	15	9.5	17	14	11	8.0	125
19	3.2	1.7	1.9	1.4	6.2	12	9.2	13	4.8	6.7	7.6	115
20	3.0	1.7	1.8	1.4	5.8	16	10	12	3.8	4.7	10	121
21	2.9	1.7	1.7	1.3	5.3	15	11	10	3.4	4.4	9.0	87
22	2.9	1.5	1.6	1.2	4.9	17	11	8.0	3.0	4.0	9.0	64
23	2.7	1.5	1.5	1.1	7.6	16	10	11	2.6	5.6	8.3	51
24	1.7	1.6	1.5	1.3	32	15	8.3	9.7	3.0	6.2	18	53
25	1.4	1.6	1.6	1.3	28	15	7.6	7.6	2.6	5.1	25	52
26	2.2	1.7	1.7	1.3	24	14	7.1	7.0	2.0	4.4	20	78
27	2.3	3.0	1.7	1.3	20	18	6.3	5.4	2.1	4.0	20	62
28	2.3	1.8	1.7	1.1	16	36	6.4	4.9	2.2	3.6	39	48
29	2.0	1.7	1.6	1.1	---	66	5.7	4.4	2.2	4.9	39	40
30	2.3	1.8	1.6	1.2	---	102	5.4	3.8	172	4.0	39	36
31	2.0	---	1.3	1.5	---	54	---	3.2	---	6.2	37	---
TOTAL	93.5	56.7	55.6	41.7	226.2	761	437.7	1221.6	305.9	503.9	429.7	1208.0
MEAN	3.02	1.89	1.79	1.35	8.08	24.5	14.6	39.4	10.2	16.3	13.9	40.3
MAX	11	3.0	2.0	1.7	32	102	37	320	172	229	39	125
MIN	1.4	1.5	1.3	1.0	1.2	10	5.4	3.2	2.0	2.1	2.7	3.5
CFSM	.02	.01	.009	.007	.04	.13	.07	.20	.05	.08	.07	.21
IN.	.02	.01	.01	.01	.04	.14	.08	.23	.06	.10	.08	.23

CAL YR 1976 TOTAL 31980.0 MEAN 87.4 MAX 2100 MIN 1.1 CFSM .45 IN 6.07
WTR YR 1977 TOTAL 5341.5 MEAN 14.6 MAX 320 MIN 1.0 CFSM .07 IN 1.01

05560500 FARM CREEK AT FARMDALE, IL

LOCATION.--Lat 40°40'00", long 89°30'15", in NE¼SE¼ sec.36, T.26 N., R.4 W., Tazewell County, Hydrologic Unit 07130001, on left bank 200 ft (61 m) downstream from bridge, 0.2 mi (0.3 km) southeast of Farmdale, 0.2 mi (0.3 km) upstream from Lake Erie & Western Railroad bridge, and 0.3 mi (0.5 km) downstream from Toledo, Peoria & Western Railroad bridge.

DRAINAGE AREA.--27.4 mi^2 (71.0 km^2).

PERIOD OF RECORD.--October 1948 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 530.12 ft (161.581 m) above mean sea level.

REMARKS.--Records poor. High flow regulated by Farmdale Dam, 1 mi (2 km) upstream beginning in September 1950. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--29 years, 17.7 ft^3/s (0.501 m^3/s), 8.77 in/yr (223 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.58 ft (2.310 m) Apr. 24, 1950, discharge not determined; no flow for several days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 691 ft^3/s (19.6 m^3/s) Aug. 7, gage height, 3.95 ft (1.204 m); minimum daily, 0.17 ft^3/s (0.005 m^3/s) July 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	1.2	1.2	.70	.20	4.0	10	1.8	.61	.21	1.0	3.0
2	.60	1.0	1.2	.70	.20	4.1	12	1.8	.61	.19	.50	2.7
3	.50	1.3	1.1	.70	.20	4.6	6.9	1.8	.55	.19	.35	2.5
4	1.1	1.4	1.1	.70	.20	4.8	9.0	29	.41	.19	.30	10
5	5.4	1.5	1.1	.65	.20	4.1	8.7	47	.41	.19	.25	4.0
6	6.1	1.2	1.1	.60	.20	3.6	6.6	25	.41	.17	45	3.0
7	1.4	1.0	1.0	.55	.20	3.3	5.8	21	.41	.17	427	2.8
8	1.2	1.4	1.0	.50	.20	3.3	5.3	13	.41	.41	62	2.5
9	1.3	1.0	1.0	.50	.20	3.5	4.3	8.5	2.4	4.5	107	2.3
10	1.4	.90	1.8	.45	.50	3.5	3.8	6.3	1.8	3.0	134	2.1
11	1.5	.80	1.5	.40	1.5	4.3	3.3	5.3	1.0	1.5	56	2.0
12	1.0	.80	1.2	.35	5.0	44	2.6	4.3	.80	.80	37	12
13	.80	.80	1.1	.35	4.0	16	2.4	3.9	.60	.61	23	34
14	.80	1.4	1.1	.35	1.5	9.7	2.7	3.4	.50	.41	16	14
15	1.5	3.0	1.1	.30	.50	7.3	2.5	3.1	.45	.20	12	68
16	.80	1.4	1.1	.25	.40	5.2	2.4	2.7	.40	14	10	31
17	.60	.80	1.1	.25	.30	4.4	2.2	2.3	.35	2.0	8.0	26
18	.80	.70	1.1	.25	.30	9.0	1.8	2.4	.30	.40	7.0	190
19	5.0	.60	1.1	.25	.30	6.7	1.8	1.8	.30	.30	6.0	92
20	1.0	.55	1.1	.25	.30	7.8	4.7	1.7	.25	.25	5.0	56
21	.70	.54	1.1	.20	8.4	5.6	3.8	1.6	.25	2.0	4.5	41
22	.60	.52	1.1	.20	55	5.7	3.0	1.5	.20	.50	4.0	34
23	.80	.50	1.1	.20	175	6.6	3.0	1.3	.20	.30	3.5	39
24	5.0	.50	1.1	.20	42	5.8	2.7	1.4	.19	.25	3.0	162
25	1.7	.50	1.1	.20	10	4.8	2.6	1.2	5.1	.24	3.0	69
26	1.0	2.8	1.1	.20	7.6	4.8	2.4	1.2	3.6	.23	2.9	47
27	.90	1.6	1.1	.20	6.7	6.4	2.2	1.0	1.0	.22	2.8	37
28	.80	1.4	1.0	.20	5.1	37	1.9	1.0	.21	.21	2.7	32
29	2.5	1.3	.90	.20	---	41	2.0	1.0	.21	.21	14	30
30	3.8	1.2	.85	.20	---	18	1.9	.89	.21	.25	5.0	24
31	1.1	---	.80	.20	---	12	---	.77	---	6.0	3.5	---
TOTAL	52.50	33.61	34.35	11.25	326.20	300.9	124.3	198.96	24.14	40.10	1006.30	1074.9
MEAN	1.69	1.12	1.11	.36	11.7	9.71	4.14	6.42	.80	1.29	32.5	35.8
MAX	6.1	3.0	1.8	.70	175	44	12	47	5.1	14	427	190
MIN	.50	.50	.80	.20	.20	3.3	1.8	.77	.19	.17	.25	2.0
CFSM	.06	.04	.04	.01	.43	.35	.15	.23	.03	.05	1.19	1.31
IN.	.07	.05	.05	.02	.44	.41	.17	.27	.03	.05	1.37	1.46

CAL YR 1976 TOTAL 8751.38 MEAN 23.9 MAX 696 MIN .50 CFSM .87 IN 11.88
WTR YR 1977 TOTAL 3227.51 MEAN 8.84 MAX 427 MIN .17 CFSM .32 IN 4.38

05561000 ACKERMAN CREEK AT FARMDALE, IL

LOCATION.--Lat 40°39'43", long 89°30'13", in SE¼SE¼ sec.36, T.26 N., R.4 W., Tazewell County, Hydrologic Unit 07130001, on right bank at upstream side of New York, Chicago and St. Louis Railroad bridge, 0.3 mi (0.5 km) upstream from mouth and 0.45 mi (0.72 km) southeast of Farmdale.

DRAINAGE AREA.--11.2 mi² (29.0 km²).

PERIOD OF RECORD.--December 1953 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 527.22 ft (160.697 m) above mean sea level.

REMARKS.--Records poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--23 years (water years 1955-77), 6.00 ft³/s (0.170 m³/s), 7.28 in/yr (185 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft³/s (52.7 m³/s) June 25, 1968, gage height, 9.15 ft (2.789 m), from rating curve extended above 60 ft³/s (1.70 m³/s); maximum gage height, 10.66 ft (3.249 m) Sept. 14, 1972; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.5 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Aug. 6	0715	315	8.92	5.70	1.737	Sept. 15	0700	349	9.88	5.85	1.783
Aug. 7	0645	*889	25.2	*8.36	2.548	Sept. 18	0830	489	13.8	6.57	2.003
Aug. 10	0700	538	15.2	6.81	2.076	Sept. 24	0015	522	14.8	6.73	2.051

No flow Sept. 9-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.46	.60	.20	.15	.10	1.5	4.8	.35	.25	.35	.15	.18
2	.40	.40	.20	.15	.10	1.4	5.4	.72	.23	.30	.15	.02
3	.40	.35	.20	.15	.10	1.3	3.2	.51	.22	.28	.15	.02
4	.40	.30	.20	.15	.10	1.2	4.8	12	.19	.25	.18	3.4
5	.46	.25	.20	.15	.10	1.1	3.5	14	.18	.20	.18	.59
6	1.4	.23	.20	.14	.10	1.0	3.2	23	.17	.18	37	.02
7	.52	.22	.20	.13	.10	.97	2.8	14	.15	.17	172	.05
8	.52	.20	.20	.13	.10	1.0	2.6	6.1	.30	.22	30	.05
9	.40	.18	.20	.13	.10	1.1	2.6	3.9	.53	.18	44	.00
10	.40	.18	.50	.12	.20	.97	2.0	2.5	.47	.15	90	.00
11	.52	.15	.40	.12	.80	1.3	1.6	2.1	.73	.15	22	.00
12	.46	.15	.30	.12	2.0	41	1.4	1.7	.30	.18	8.9	.26
13	.46	.15	.25	.12	1.5	8.1	1.3	1.5	.25	.18	2.5	39
14	.40	.12	.20	.12	.60	4.3	1.2	1.4	.80	.21	1.2	4.6
15	.40	.12	.20	.12	.20	2.9	1.2	1.2	.25	.18	.58	48
16	.35	.12	.20	.11	.15	2.0	1.1	1.1	.20	10	.28	9.3
17	.35	.12	.20	.10	.12	2.7	.92	1.0	.17	1.3	.21	6.2
18	.30	.12	.19	.10	.11	4.9	.85	.80	.15	.40	.22	165
19	.30	.12	.18	.10	.11	2.8	.99	.70	.15	.30	.30	48
20	.30	.10	.18	.10	.40	3.7	1.1	.68	.93	.12	.69	24
21	.30	.10	.18	.10	5.0	2.6	1.5	.62	.27	.22	1.1	15
22	.26	.10	.18	.10	20	3.2	1.1	.58	.18	.18	1.4	12
23	.26	.08	.18	.10	70	2.7	.88	.52	.21	.12	1.5	25
24	.18	.08	.18	.10	15	2.1	.72	.50	.42	.12	1.2	138
25	.52	.08	.18	.20	3.0	1.8	.62	.45	.20	.12	.05	32
26	.46	.40	.17	.10	2.3	1.5	.57	.42	.17	.12	.03	19
27	.30	1.0	.17	.10	2.0	3.5	.36	.40	.16	.12	.03	13
28	.25	.30	.16	.10	1.7	38	.46	.35	.37	.12	.04	10
29	.23	.25	.16	.10	---	29	.42	.32	.22	.15	.07	8.1
30	3.0	.22	.16	.10	---	9.9	.36	.30	3.2	.15	.22	8.8
31	1.1	---	.15	.10	---	5.8	---	.28	---	.59	.03	---
TOTAL	16.06	6.79	6.47	3.71	126.09	185.34	53.55	94.00	12.02	17.31	416.36	629.59
MEAN	.52	.23	.21	.12	4.50	5.98	1.79	3.03	.40	.56	13.4	21.0
MAX	3.0	1.0	.50	.20	70	41	5.4	23	3.2	10	172	165
MIN	.18	.08	.15	.10	.10	.97	.36	.28	.15	.12	.03	.00
CFSM	.05	.02	.02	.01	.40	.53	.16	.27	.04	.05	1.20	1.88
IN.	.05	.02	.02	.01	.42	.62	.18	.31	.04	.06	1.38	2.09

CAL YR 1976 TOTAL 3633.32 MEAN 9.93 MAX 247 MIN .01 CFSM .89 IN 12.07
WTR YR 1977 TOTAL 1567.29 MEAN 4.29 MAX 172 MIN .00 CFSM .38 IN 5.21

05561500 FONDULAC CREEK NEAR EAST PEORIA, IL

LOCATION.--Lat 40°40'38", long 89°31'52", on line between SW¼ and SE¼ sec.26, T.26 N., R.4 W., Tazewell County, Hydrologic Unit 07130001, on left bank at upstream side of bridge on State Highway 8, 0.2 mi (0.3 km) upstream from New York, Chicago and St. Louis Railroad bridge, 0.4 mi (0.6 km) upstream from mouth, and 3 mi (5 km) northeast of East Peoria.

DRAINAGE AREA.--5.54 mi² (14.35 km²).

PERIOD OF RECORD.--January 1948 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 505.00 ft (153.924 m) above mean sea level (Corps of Engineers bench mark). Prior to Aug. 5, 1948, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. High flow regulated by Fondulac Dam, 0.5 mi (0.8 km) upstream. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--29 years, 4.26 ft³/s (0.121 m³/s), 10.44 in/yr (265 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 531 ft³/s (15.0 m³/s) June 19, 1964, gage height, 3.64 ft (1.109 m), from rating curve extended above 160 ft³/s (4.53 m³/s); maximum gage height, 3.83 ft (1.167 m) July 25, 1948; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 199 ft³/s (5.64 m³/s) Aug. 7, gage height, 3.30 ft (1.006 m); no flow for many days..

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.42	.08	.00	.00	2.2	3.2	.40	.00	.11	.00	.32
2	.01	.21	.06	.00	.00	2.1	4.3	1.0	.00	.00	.00	.26
3	.00	.38	.05	.00	.00	2.0	2.4	.53	.00	.00	.00	.04
4	.03	.15	.04	.00	.00	1.9	3.3	8.5	.00	.00	.01	.00
5	5.0	.35	.04	.00	.00	1.8	3.3	18	.00	.00	.01	.02
6	2.9	.12	.03	.00	.00	1.8	2.6	8.2	.00	.00	29	.00
7	.45	.11	.02	.00	.00	1.8	2.0	5.6	.00	.00	137	.00
8	.48	.21	.02	.00	.00	1.7	1.8	2.5	.00	.90	34	.00
9	.00	.13	.02	.00	.00	1.7	1.4	1.5	.00	.35	18	.00
10	.18	.32	.02	.00	.04	2.6	1.3	1.2	.00	.00	7.3	.00
11	.35	.06	.01	.00	.30	2.6	1.3	1.1	.41	.00	5.1	.00
12	.04	.14	.01	.00	1.5	25	1.0	.78	.15	.00	5.5	.00
13	.25	.01	.01	.00	.70	9.5	1.1	.80	.03	.00	2.6	10
14	.01	.00	.01	.00	.30	5.1	1.0	.57	.01	.00	1.3	1.7
15	.13	.13	.01	.00	.10	3.0	1.1	.44	.00	.00	.76	27
16	.05	.06	.01	.00	.08	2.1	.96	.48	.00	17	.46	15
17	.00	.21	.01	.00	.06	2.1	.77	.35	.01	1.1	.39	4.5
18	.17	.06	.01	.00	.06	4.6	.93	.36	.02	.30	.14	42
19	.28	.17	.01	.00	.06	2.2	.74	.23	.00	.02	.00	26
20	.52	.07	.01	.00	.06	3.3	1.1	.26	.00	.00	.03	11
21	.18	.09	.00	.00	.20	2.6	1.3	.24	.00	.00	.00	5.4
22	.33	.18	.00	.00	8.0	2.8	1.1	.31	.00	.00	.00	3.2
23	.24	.02	.00	.00	40	2.9	.73	.18	.00	.00	.00	2.1
24	.39	.18	.00	.00	10	2.0	.63	.27	.00	.00	.00	34
25	.38	.08	.00	.00	4.2	1.9	.68	.07	.00	.00	.00	9.0
26	.13	1.1	.00	.00	3.2	1.5	.54	.07	.00	.00	.00	6.9
27	.21	1.6	.00	.00	2.8	3.1	.59	.01	.00	.00	.00	3.0
28	.04	.20	.00	.00	2.5	18	.37	.02	.00	.00	.01	1.5
29	.20	.21	.00	.00	---	25	.44	.04	.00	.00	.58	.60
30	1.1	.11	.00	.00	---	7.8	.38	.03	.10	.00	.36	.50
31	.79	---	.00	.00	---	4.0	---	.00	---	1.5	.05	---
TOTAL	14.96	7.08	.48	.00	74.16	150.7	42.36	54.04	.73	21.28	242.60	204.04
MEAN	.48	.24	.015	.000	2.65	4.86	1.41	1.74	.024	.69	7.83	6.80
MAX	5.0	1.6	.08	.00	40	25	4.3	18	.41	17	137	42
MIN	.00	.00	.00	.00	.00	1.5	.37	.00	.00	.00	.00	.00
CFSM	.09	.04	.003	.000	.48	.88	.26	.31	.004	.13	1.41	1.23
IN.	.10	.05	.00	.00	.50	1.01	.28	.36	.00	.14	1.63	1.37

CAL YR 1976 TOTAL 1543.70 MEAN 4.22 MAX 130 MIN .00 CFSM .76 IN 10.37
WTR YR 1977 TOTAL 812.43 MEAN 2.23 MAX 137 MIN .00 CFSM .40 IN 5.45

05562000 FARM CREEK AT EAST PEORIA, IL

LOCATION.--Lat 40°40'04", long 89°34'40", in SW¼NW¼ sec.33, T.26 N., R.4 W., Tazewell County, Hydrologic Unit 07130001, on left bank 30 ft (9 m) upstream from Main Street Bridge in East Peoria, 300 ft (91 m) downstream from Coal Creek, 400 ft (122 m) upstream from Peoria and Pekin Union Railway bridge, 1,300 ft (396 m) upstream from entrance to Farm Creek diversion channel, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--61.2 mi² (158.5 km²).

PERIOD OF RECORD.--May 1943 to current year.

REVISED RECORDS.--WSP 1508: 1945, 1956(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 450.39 ft (137.279 m) above mean sea level (Corps of Engineers bench mark). Prior to July 31, 1945, nonrecording gage at site 400 ft (122 m) downstream at same datum. July 31, 1945, to Sept. 2, 1948, nonrecording gage at site 30 ft (9 m) downstream at same datum.

REMARKS.--Records poor. High flow regulated by Farmdale and Fondulac Dams beginning in September 1950. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--34 years, 42.7 ft³/s (1.209 m³/s), 9.47 in/yr (241 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,000 ft³/s (623 m³/s) Apr. 29, 1947, gage height, 15.00 ft (4.572 m), from rating curve extended above 4,200 ft³/s (119 m³/s) on basis of velocity-area studies and slope-area measurement of peak flow; no flow for many days in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of about 15.6 ft (4.75 m), present site, occurred in 1927, from information by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,050 ft³/s (58.1 m³/s) Aug. 7, gage height, 4.02 ft (1.225 m); minimum daily, 0.40 ft³/s (0.011 m³/s) July 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	25	2.0	.90	.50	3.5	21	16	1.6	2.0	6.0	2.8
2	.75	4.3	1.8	.90	.50	2.5	21	24	1.5	1.6	.77	2.7
3	.75	4.3	1.7	.90	.50	2.2	16	2.7	1.3	1.6	.82	2.7
4	.75	3.8	1.6	.90	.50	2.0	21	75	1.2	1.4	5.4	22
5	20	3.0	1.6	.90	.50	2.0	18	114	1.1	1.2	2.2	10
6	10	3.0	1.5	.80	.50	2.1	18	85	1.0	1.0	359	7.0
7	1.0	2.6	1.5	.80	.50	3.0	14	56	1.0	1.4	896	6.0
8	1.2	6.0	1.5	.80	.50	4.4	10	30	1.0	12	364	5.5
9	14	2.0	1.5	.80	.50	7.4	10	20	5.0	8.3	250	5.0
10	1.4	2.3	4.0	.75	1.5	7.4	9.2	15	3.4	3.8	314	4.6
11	1.2	2.3	1.8	.70	3.5	12	10	12	6.7	5.4	172	4.5
12	1.0	2.0	1.6	.70	11	133	7.5	10	1.8	3.0	125	25
13	3.0	3.0	1.5	.70	8.0	28	8.3	9.0	1.6	1.5	75	90
14	1.0	3.8	1.4	.70	3.0	18	9.2	8.0	7.5	.80	35	29
15	2.3	6.7	1.4	.70	1.1	11	9.2	7.0	1.0	.40	20	289
16	1.0	1.6	1.4	.60	.80	10	9.2	6.5	3.4	66	13	104
17	1.0	1.2	1.4	.60	.65	14	8.3	6.0	1.0	9.1	12	96
18	1.8	1.4	1.3	.60	.60	12	8.3	5.0	.91	2.2	6.0	754
19	15	1.6	1.3	.60	.60	11	9.2	4.5	.83	1.2	4.0	373
20	2.3	1.8	1.3	.60	1.0	11	9.2	4.0	.83	.81	7.3	168
21	1.8	1.8	1.3	.55	15	9.2	15	3.8	.83	2.5	8.0	101
22	1.4	1.8	1.3	.50	130	15	9.2	3.6	1.6	5.2	7.2	73
23	3.8	1.8	1.3	.50	400	11	7.5	3.3	.91	.82	3.3	64
24	2.0	1.6	1.3	.50	100	10	6.0	3.1	.83	4.8	4.3	473
25	15	1.2	1.3	.50	23	10	3.8	3.0	2.0	5.8	4.2	208
26	3.8	48	1.3	.50	10	9.2	3.3	2.8	.91	.72	3.0	111
27	2.3	41	1.2	.50	7.0	16	3.1	2.6	.83	6.1	2.7	76
28	2.0	5.4	1.1	.50	5.0	112	2.8	2.5	3.8	1.8	33	64
29	1.8	3.0	1.0	.50	---	81	7.1	2.3	1.6	2.0	25	57
30	38	2.2	.90	.50	---	23	2.9	2.1	19	3.7	3.7	54
31	43	---	.90	.50	---	20	---	1.9	---	28	3.0	---
TOTAL	195.10	189.5	46.00	20.50	726.25	612.9	307.3	540.7	75.98	186.15	2764.89	3281.8
MEAN	6.29	6.32	1.48	.66	25.9	19.8	10.2	17.4	2.53	6.00	89.2	109
MAX	43	48	4.0	.90	400	133	21	114	19	66	896	754
MIN	.75	1.2	.90	.50	.50	2.0	2.8	1.9	.83	.40	.77	2.7
CFSM	.10	.10	.02	.01	.42	.32	.17	.28	.04	.10	1.46	1.78
IN.	.12	.12	.03	.01	.44	.37	.19	.33	.05	.11	1.68	1.99

CAL YR 1976 TOTAL 18639.95 MEAN 50.9 MAX 1540 MIN .39 CFSM .83 IN 11.33
WTR YR 1977 TOTAL 8947.07 MEAN 24.5 MAX 896 MIN .40 CFSM .40 IN 5.44

05563600 ILLINOIS RIVER AT LOCK & DAM AT PEORIA, IL

LOCATION.--Lat 40°37'55", long 89°37'27", Tazewell County, Hydrologic Unit 07130003, on left lock wall of Peoria navigation lock and dam, 0.1 mi (0.2 km) downstream from I-474 bridge and at mile 157.7 (253.7 km) upstream from Mississippi River.

DRAINAGE AREA.--Not determined.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1974 to September 1977 (discontinued).

INSTRUMENTATION.--Temperature recorder since July 1974.

REMARKS.--Record missing Sept. 26-30 due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 32.0°C July 15, 16, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 32.0°C July 15, 16; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.5	16.5	17.0	7.5	6.5	7.0	0.5	0.5	0.5	0.0	0.0	0.0
2	18.0	17.0	17.5	7.5	7.0	7.5	0.5	0.0	0.5	0.0	0.0	0.0
3	19.0	18.0	18.5	8.0	7.5	8.0	0.5	0.0	0.0	0.0	0.0	0.0
4	19.5	19.0	19.0	8.0	7.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0
5	19.5	18.5	19.0	7.0	6.0	6.5	0.5	0.0	0.0	0.5	0.0	0.0
6	18.5	16.0	17.0	6.0	5.5	6.0	0.0	0.0	0.0	0.5	0.0	0.0
7	16.0	15.0	15.5	6.0	5.5	5.5	0.5	0.0	0.0	0.5	0.5	0.5
8	15.0	13.5	14.0	6.0	4.5	5.0	1.0	0.0	0.0	0.0	0.0	0.0
9	13.5	13.0	13.0	4.5	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
10	13.0	12.5	13.0	4.5	4.0	4.0	0.5	0.0	0.5	0.0	0.0	0.0
11	13.5	12.5	13.0	4.0	3.5	4.0	0.5	0.0	0.0	0.0	0.0	0.0
12	14.5	13.5	14.0	3.5	3.0	3.5	0.5	0.0	0.0	0.0	0.0	0.0
13	15.5	14.5	15.0	3.0	2.5	3.0	0.5	0.0	0.0	0.0	0.0	0.0
14	15.5	15.0	15.0	2.5	2.0	2.5	0.5	0.0	0.0	0.0	0.0	0.0
15	15.0	14.5	15.0	2.0	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
16	14.5	13.5	14.0	3.0	2.0	2.5	0.5	0.0	0.5	0.0	0.0	0.0
17	13.0	11.5	12.0	3.5	2.5	3.0	0.5	0.0	0.0	0.0	0.0	0.0
18	11.5	10.5	10.5	4.0	3.0	3.5	0.5	0.0	0.0	0.0	0.0	0.0
19	10.5	9.5	10.0	5.0	4.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0
20	9.5	9.0	9.0	5.5	4.0	4.5	1.0	0.0	0.5	0.0	0.0	0.0
21	9.0	8.5	8.5	5.0	4.5	4.5	0.5	0.0	0.0	0.0	0.0	0.0
22	8.5	8.0	8.0	5.5	3.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
23	8.0	7.0	7.5	4.0	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
24	7.5	7.0	7.0	2.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
25	7.5	7.5	7.5	3.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
26	8.0	7.5	7.5	4.5	3.0	3.5	0.5	0.0	0.0	0.0	0.0	0.0
27	8.0	7.5	7.5	4.5	4.0	4.5	0.5	0.0	0.5	0.0	0.0	0.0
28	7.5	7.0	7.0	4.0	2.0	3.0	0.5	0.0	0.0	0.0	0.0	0.0
29	8.0	7.5	7.5	2.0	0.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
30	8.0	7.0	7.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
31	7.0	6.5	7.0	---	---	---	0.5	0.0	0.0	0.0	0.0	0.0
MONTH	19.5	6.5	12.0	8.0	0.0	4.0	1.0	0.0	0.0	0.5	0.0	0.0

05563600 ILLINOIS RIVER AT LOCK & DAM AT PEORIA, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	2.0	1.0	1.5	10.5	9.5	10.0	16.5	15.5	15.5
2	0.0	0.0	0.0	3.0	2.0	2.5	11.5	9.5	10.5	17.5	16.5	16.5
3	0.0	0.0	0.0	3.5	2.5	2.5	12.5	11.0	11.5	18.0	17.5	17.5
4	0.0	0.0	0.0	4.0	3.5	3.5	12.0	11.0	11.5	19.5	18.5	18.0
5	0.0	0.0	0.0	4.5	3.5	4.0	11.5	9.0	10.5	20.0	19.0	19.5
6	0.0	0.0	0.0	4.5	3.5	4.0	9.5	8.0	8.5	21.0	20.0	20.5
7	0.0	0.0	0.0	4.5	4.0	4.0	9.5	8.0	8.5	21.0	20.5	20.5
8	0.0	0.0	0.0	6.0	4.5	5.0	10.5	9.5	10.0	21.0	20.0	20.5
9	0.0	0.0	0.0	7.5	6.0	6.5	11.5	10.0	11.0	20.5	19.0	19.5
10	0.5	0.0	0.0	9.0	7.5	8.0	13.0	11.0	12.0	19.0	17.5	18.0
11	0.5	0.0	0.5	9.5	8.5	9.0	16.0	13.0	14.0	20.0	18.5	19.0
12	0.5	0.0	0.5	10.0	9.5	9.5	17.0	15.0	16.5	20.5	19.5	20.0
13	0.5	0.0	0.5	10.0	9.5	10.0	17.5	17.0	17.0	21.5	20.0	20.5
14	1.0	0.0	0.5	10.0	9.0	9.5	18.0	17.5	17.5	22.0	21.0	21.5
15	1.5	0.0	0.5	11.5	9.5	10.5	18.5	17.5	18.0	23.5	22.0	22.5
16	1.5	0.0	0.5	12.5	11.0	11.5	19.5	18.0	18.5	24.0	22.5	23.0
17	0.5	0.0	0.0	11.5	9.5	10.5	20.5	19.0	19.5	24.5	23.5	24.0
18	0.5	0.0	0.5	10.0	8.5	9.0	21.5	19.5	20.0	25.0	24.0	24.5
19	0.5	0.0	0.0	9.0	7.5	8.0	21.0	20.5	21.0	26.5	24.5	25.5
20	1.0	0.0	0.0	8.5	7.0	7.5	21.0	20.5	20.5	26.5	25.5	26.0
21	1.0	0.0	0.5	7.5	6.5	7.0	21.0	20.0	20.0	26.5	25.5	25.5
22	1.0	0.0	0.5	7.0	6.0	6.5	20.0	18.0	19.0	25.5	24.5	25.0
23	1.0	1.0	1.0	7.0	6.0	6.0	18.0	16.5	17.0	25.0	24.5	24.5
24	1.0	0.0	0.5	8.0	7.0	7.0	17.0	16.0	16.5	25.0	24.5	25.0
25	1.0	0.0	0.5	9.0	8.0	8.0	16.0	15.0	15.5	26.5	25.0	25.5
26	1.0	0.0	0.0	10.0	8.5	9.0	15.5	15.0	15.0	27.0	26.0	26.5
27	0.5	0.0	0.0	11.0	10.0	10.5	17.0	15.5	16.0	27.5	26.5	27.0
28	1.0	0.0	1.0	11.5	11.0	11.0	17.0	16.0	16.0	27.5	26.5	27.0
29	---	---	---	12.0	11.5	11.5	16.5	15.5	15.5	26.5	26.0	26.5
30	---	---	---	13.5	12.5	13.0	16.0	15.5	15.5	27.0	26.0	26.5
31	---	---	---	13.0	10.5	11.5	---	---	---	27.5	26.5	27.0
MONTH	1.5	0.0	0.5	13.5	1.0	7.5	21.5	8.0	15.0	27.5	15.5	22.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.5	25.0	26.0	26.0	25.0	26.0	28.0	27.0	27.5	27.0	26.5	27.0
2	25.0	24.0	24.0	25.0	24.5	24.5	27.0	26.0	26.5	27.0	27.0	27.0
3	24.0	23.0	23.5	26.0	25.0	25.0	26.0	25.5	26.0	27.0	26.0	26.5
4	24.0	23.0	23.5	28.0	26.0	27.0	26.0	25.5	25.5	26.0	25.5	26.0
5	24.0	23.5	24.0	29.5	27.5	28.5	26.0	25.5	25.5	26.5	26.0	26.0
6	24.5	24.0	24.0	30.5	29.0	29.5	25.5	25.0	25.0	26.5	25.5	26.0
7	24.5	23.5	23.5	31.0	30.0	30.0	25.0	23.5	24.5	26.0	25.5	25.5
8	23.5	22.5	23.0	30.5	30.0	30.0	25.0	24.5	24.5	26.0	25.0	25.5
9	22.5	21.5	21.5	30.0	29.0	29.5	25.0	24.5	24.5	25.5	25.0	25.5
10	21.5	21.0	21.0	29.5	27.5	28.5	26.0	24.5	25.0	25.0	24.0	24.5
11	21.0	20.5	21.0	28.0	28.0	28.0	26.0	25.5	26.0	24.0	23.0	23.0
12	21.5	21.0	21.5	28.5	28.0	28.0	25.5	24.5	25.0	23.0	22.0	22.5
13	21.0	20.5	21.0	30.0	28.5	29.0	26.0	25.0	25.0	22.0	21.0	21.5
14	21.0	20.5	20.5	31.5	29.5	30.5	26.5	26.0	26.0	21.0	20.5	20.5
15	21.5	21.0	21.0	32.0	31.0	31.5	26.5	25.5	26.0	20.5	20.0	20.0
16	23.5	21.5	23.0	32.0	29.5	31.0	26.5	26.0	26.5	20.0	20.0	20.0
17	25.5	23.5	24.5	30.0	29.0	29.5	26.5	25.5	26.0	20.5	20.0	20.5
18	26.5	25.5	26.0	30.0	28.5	29.0	25.5	25.0	25.0	21.0	20.5	20.5
19	26.5	26.0	26.0	29.0	28.5	29.0	25.0	24.0	24.5	21.0	21.0	21.0
20	27.0	26.0	26.5	29.5	29.0	29.0	24.5	24.0	24.0	21.0	20.0	20.0
21	27.0	26.0	26.5	30.0	29.0	29.5	24.5	24.0	24.5	20.0	19.5	19.5
22	26.0	25.0	25.5	29.5	28.5	29.0	25.0	24.0	24.5	20.0	19.5	20.0
23	25.0	24.5	24.5	29.0	28.5	28.5	25.0	24.5	24.5	20.0	19.5	20.0
24	24.5	24.0	24.0	28.5	28.0	28.5	25.0	24.5	24.5	20.5	20.0	20.0
25	25.5	24.5	25.0	28.5	28.0	28.0	24.5	24.0	24.5	20.5	20.5	20.5
26	27.0	26.0	26.5	28.0	27.5	27.5	24.5	24.0	24.0	---	---	---
27	28.5	26.5	27.5	27.5	26.5	26.5	25.0	24.5	24.5	---	---	---
28	28.5	28.0	28.0	27.0	26.0	26.5	25.5	25.0	25.5	---	---	---
29	28.0	27.5	28.0	27.0	26.0	26.5	26.0	25.5	25.5	---	---	---
30	27.5	26.0	26.5	27.5	26.5	27.0	26.0	25.5	25.5	---	---	---
31	---	---	---	28.0	27.5	27.5	26.5	25.5	26.0	---	---	---
MONTH	28.5	20.5	24.0	32.0	24.5	28.5	28.0	23.5	25.0	27.0	19.5	23.0
YEAR	32.0	0.0	13.5									

05564400 MONEY CREEK NEAR TOWANDA, IL

LOCATION.--Lat 40°36'19", long 88°53'56", in SW¼SW¼ sec.20, T.25 N., R.3 E., McLean County, Hydrologic Unit 07130004, on right bank 25 ft (8 m) downstream from highway bridge, 3 mi (5 km) north of Towanda and 5 mi (8 km) east of Hudson.

DRAINAGE AREA.--49.0 mi² (126.9 km²).

PERIOD OF RECORD.--May 1958 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and steel-sheet piling control. Datum of gage is 723.65 ft (220.569 m) above mean sea level (State Water Survey bench mark).

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--19 years, 33.4 ft³/s (0.946 m³/s), 9.26 in/yr (235 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,600 ft³/s (45.3 m³/s) Feb. 10, 1959, gage height, 11.15 ft (3.399 m), backwater from ice; maximum gage height, 11.69 ft (3.563 m) Dec. 30, 1972; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 6	1015	403	11.4	7.81	2.380	Sept. 14	1000	714	20.2	9.28	2.829
Aug. 7	0645	*916	25.9	*9.79	2.984						

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.06	.00	.00	.00	2.5	15	2.9	13	3.1	.00	4.4
2	.01	.03	.00	.00	.00	2.0	16	15	12	2.4	.00	16
3	.00	.01	.00	.00	.00	3.0	13	39	10	2.0	.00	15
4	.00	.00	.00	.00	.00	3.4	13	29	9.1	2.0	.00	8.9
5	.12	.00	.00	.00	.00	3.3	15	75	8.7	1.5	5.0	7.7
6	2.9	.00	.00	.00	.00	2.8	12	338	9.0	1.2	55	6.0
7	1.5	.00	.00	.00	.00	3.2	10	338	7.6	.93	415	5.1
8	.65	.00	.00	.00	.02	3.2	9.6	209	8.3	.64	150	9.8
9	.41	.03	.00	.00	.10	3.9	8.3	119	8.3	.30	113	4.1
10	.20	.06	.00	.00	3.0	4.1	7.9	92	6.8	.19	89	3.4
11	.12	.05	.00	.00	2.0	3.6	6.9	74	7.3	.10	65	3.1
12	.07	.05	.00	.00	.60	12	6.1	60	7.6	.09	74	4.8
13	.04	.02	.00	.00	.30	9.8	5.8	52	6.6	.16	52	417
14	.00	.02	.00	.00	.10	7.0	5.7	46	5.8	.09	36	607
15	.00	.00	.00	.00	.07	4.7	5.5	40	5.1	.00	26	314
16	.00	.00	.00	.00	.06	3.5	5.3	34	4.9	.58	20	292
17	.00	.01	.00	.00	.05	3.1	4.8	31	4.6	1.1	16	208
18	.00	.03	.00	.00	.05	7.3	4.7	28	4.5	1.4	12	279
19	.00	.04	.01	.00	.05	6.1	4.5	25	4.2	1.7	8.9	261
20	.00	.02	.07	.00	.05	8.0	4.8	24	5.0	1.8	8.3	163
21	.00	.01	.00	.00	.06	6.5	4.6	23	3.4	3.2	6.6	126
22	.00	.00	.00	.00	.10	11	4.6	21	3.4	1.1	6.0	106
23	.02	.00	.00	.00	.60	14	4.2	19	3.6	.68	4.8	92
24	.05	.00	.00	.00	5.0	15	3.8	18	3.5	.47	4.1	150
25	.04	.02	.00	.00	15	12	4.0	18	3.3	.41	3.5	132
26	.02	.22	.00	.00	12	9.4	4.4	19	2.9	.16	3.2	102
27	.01	1.3	.00	.00	5.0	7.7	3.0	17	2.5	.06	3.0	83
28	.00	.44	.00	.00	3.5	15	2.4	15	2.5	.01	4.8	70
29	.01	.33	.00	.00	---	46	2.8	27	2.5	.01	10	63
30	.07	.01	.00	.00	---	32	2.5	19	3.1	.00	5.1	58
31	.09	---	.00	.00	---	21	---	16	---	.01	4.4	---
TOTAL	6.37	2.76	.08	.00	47.71	286.1	210.2	1882.9	179.1	27.39	1200.70	3611.3
MEAN	.21	.092	.003	.000	1.70	9.23	7.01	60.7	5.97	.88	38.7	120
MAX	2.9	1.3	.07	.00	15	46	16	338	13	3.2	415	607
MIN	.00	.00	.00	.00	.00	2.0	2.4	2.9	2.5	.00	.00	3.1
CFSM	.004	.002	.000	.000	.04	.19	.14	1.24	.12	.02	.79	2.45
IN.	.00	.00	.00	.00	.04	.22	.16	1.43	.14	.02	.91	2.74

CAL YR 1976 TOTAL 12329.95 MEAN 33.7 MAX 836 MIN .00 CFSM .69 IN 9.36
WTR YR 1977 TOTAL 7454.61 MEAN 20.4 MAX 607 MIN .00 CFSM .42 IN 5.66

05566500 EAST BRANCH PANTHER CREEK AT EL PASO, IL

LOCATION.--Lat 40°45'15", long 89°00'20", at line between secs.32 and 33, T.27 N., R.2 E., Woodford County, Hydrologic Unit 07130004, on left bank at downstream side of highway bridge, 0.7 mi (1.1 km) upstream from Illinois Central Gulf Railroad bridge, 0.9 mi (1.4 km) north of El Paso, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--30.5 mi² (79.0 km²).

PERIOD OF RECORD.--October 1949 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 688.08 ft (209.727 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--28 years, 18.6 ft³/s (0.527 m³/s), 8.28 in/yr (210 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,300 ft³/s (150 m³/s) July 9, 1951, gage height, 14.21 ft (4.331 m), from rating curve extended above 2,600 ft³/s (73.6 m³/s); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 429 ft³/s (12.1 m³/s) Sept. 24, gage height, 5.99 ft (1.826 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.39	.33	.08	.00	.00	1.2	3.3	.20	.74	.34	.28	6.2
2	.37	.28	.07	.00	.00	1.1	4.1	.29	.67	.28	.22	14
3	.32	.22	.07	.00	.00	1.2	2.9	.25	.52	.22	.29	10
4	.31	.22	.06	.00	.01	1.3	3.4	1.2	.42	.22	.25	7.2
5	.96	.22	.06	.00	.01	1.6	3.5	7.5	.48	.12	1.1	5.2
6	1.4	.21	.05	.00	.02	1.7	2.3	10	.60	.08	5.4	3.7
7	.75	.18	.05	.00	.04	1.7	1.9	13	.50	.07	179	2.9
8	.66	.18	.05	.00	.07	3.5	1.6	8.0	.64	.07	156	2.1
9	.56	.17	.06	.00	.30	7.4	1.4	6.0	2.0	.07	140	1.6
10	.49	.16	.06	.00	.70	4.2	1.4	5.5	2.9	.07	108	1.4
11	.44	.12	.06	.00	2.0	3.0	1.2	4.6	1.6	.07	78	1.1
12	.38	.12	.06	.00	1.0	6.2	.90	3.8	1.4	.34	58	1.2
13	.35	.11	.05	.00	.50	3.8	1.0	3.5	1.2	.42	43	14
14	.25	.12	.05	.00	.30	2.1	1.0	3.3	.74	.15	30	28
15	.21	.12	.05	.00	.20	1.5	.99	3.1	.55	.10	20	65
16	.22	.08	.05	.00	.15	.95	.85	2.9	.47	1.8	14	96
17	.22	.12	.05	.00	.10	1.1	.76	2.3	.54	1.2	9.6	70
18	.23	.12	.05	.00	.08	1.5	.67	2.4	.84	2.7	6.4	128
19	.31	.12	.05	.00	.06	1.3	.63	2.3	.61	1.2	4.8	142
20	.33	.12	.05	.00	.05	2.0	.66	2.2	.46	.42	3.9	97
21	.29	.12	.04	.00	.05	2.7	.66	2.1	.38	1.2	3.2	74
22	.23	.08	.04	.00	.05	2.8	.61	2.3	.46	.50	2.2	62
23	.26	.07	.04	.00	1.5	4.6	.46	1.8	.46	.12	1.6	54
24	.31	.07	.04	.00	5.0	4.8	.40	7.4	.42	.08	1.2	342
25	.30	.08	.04	.00	3.5	3.7	.37	5.8	.42	.08	.87	224
26	.28	.28	.03	.00	2.5	3.1	.31	4.1	.34	.08	.76	144
27	.25	.45	.03	.00	1.5	2.5	.24	3.1	.34	.34	.65	107
28	.24	.12	.03	.00	1.3	4.3	.28	2.8	.34	.28	1.5	80
29	.24	.08	.03	.00	---	11	.22	2.2	.28	.34	3.7	65
30	.35	.11	.02	.00	---	6.9	.18	1.3	.42	.34	4.4	54
31	.37	---	.02	.00	---	4.6	---	.90	---	.50	3.3	---
TOTAL	12.27	4.78	1.49	.00	20.99	99.35	38.19	116.14	21.74	13.80	881.62	1902.6
MEAN	.40	.16	.048	.000	.75	3.20	1.27	3.75	.72	.45	28.4	63.4
MAX	1.4	.45	.08	.00	5.0	11	4.1	13	2.9	2.7	179	342
MIN	.21	.07	.02	.00	.00	.95	.18	.20	.28	.07	.22	1.1
CFSM	.01	.005	.002	.000	.03	.11	.04	.12	.02	.02	.93	2.08
IN.	.01	.01	.00	.00	.03	.12	.05	.14	.03	.02	1.08	2.32

CAL YR 1976 TOTAL 7279.91 MEAN 19.9 MAX 376 MIN .02 CFSM .65 IN 8.88
WTR YR 1977 TOTAL 3112.97 MEAN 8.53 MAX 342 MIN .00 CFSM .28 IN 3.80

05567500 MACKINAW RIVER NEAR CONGERVILLE, IL

LOCATION.--Lat 40°37'25", long 89°14'30", in NE¼SW¼ sec.17, T.25 N., R.1 W., Woodford County, Hydrologic Unit 07130004, on right bank at downstream side of bridge on U.S. Highway 150, 900 ft (274 m) downstream from New York, Chicago and St. Louis Railroad bridge, 0.2 mi (0.3 km) downstream from Walnut Creek, and 2 mi (3 km) northwest of Congerville.

DRAINAGE AREA.--767 mi² (1,987 km²).

PERIOD OF RECORD.--October 1944 to current year.

REVISED RECORDS.--WSP 1175: 1948. WSP 1308: 1945(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 607.01 ft (185.017 m) above mean sea level. Prior to July 11, 1945, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods and those for period of no gage-height record, May 13 to June 27, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--33 years, 481 ft³/s (13.62 m³/s), 8.52 in/yr (216 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,000 ft³/s (1,020 m³/s) July 9, 1951, gage height, 19.41 ft (5.916 m); minimum, 0.2 ft³/s (0.006 m³/s) Oct. 21-24, Oct. 27 to Nov. 3, 1956, Oct. 6, 1957, Oct. 8-10, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,200 ft³/s (91 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Aug. 10	0100	*6990	198	*13.89	4.234	Sept. 24	0730	4610	131	11.01	3.356
Sept. 16	0545	5380	152	12.02	3.664						

Minimum daily discharge, 5.0 ft³/s (0.14 m³/s) July 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	13	13	12	7.0	72	230	45	92	19	20	188
2	15	13	11	9.5	7.0	58	208	50	84	19	16	347
3	14	12	10	8.4	7.0	57	188	87	74	17	14	378
4	13	10	10	8.0	7.0	55	160	259	66	14	13	253
5	16	13	9.3	7.6	7.0	56	163	616	60	11	12	202
6	20	15	9.4	7.6	7.0	53	159	870	66	9.9	154	206
7	22	14	9.3	7.5	7.0	51	135	1560	58	8.8	2960	301
8	22	11	9.3	7.5	7.0	66	118	1840	54	8.1	4450	254
9	19	10	8.9	7.5	7.0	72	108	1110	56	7.4	6290	157
10	17	9.4	9.6	7.5	8.0	78	100	789	50	6.7	6620	130
11	14	9.1	9.4	7.5	15	78	97	702	52	6.3	4480	111
12	12	9.3	9.6	7.5	70	250	89	583	52	6.1	2360	181
13	11	9.2	8.7	7.5	150	200	81	420	46	5.6	1820	1060
14	13	11	8.2	7.5	100	130	78	330	41	5.5	1290	2610
15	11	11	8.5	7.4	70	90	77	270	37	5.0	937	4370
16	9.0	10	10	7.4	50	70	76	240	35	7.8	744	5060
17	9.0	11	10	7.4	40	64	71	220	33	11	606	3370
18	9.0	11	11	7.4	35	150	66	200	31	23	482	2800
19	10	11	12	7.2	32	160	73	180	29	41	378	3580
20	12	11	13	7.2	30	180	94	170	27	30	308	3110
21	11	12	11	7.2	29	170	90	160	25	23	261	2030
22	10	11	9.5	7.2	35	190	78	150	23	33	219	1600
23	11	11	19	7.2	228	250	73	140	24	23	185	1380
24	12	9.7	35	7.0	290	270	66	130	26	19	157	4030
25	12	11	37	7.0	217	220	59	130	24	17	133	3090
26	11	15	38	7.0	138	170	56	140	22	14	117	2100
27	10	22	32	7.0	93	150	53	120	20	65	106	1620
28	10	20	25	7.0	93	350	51	110	18	43	115	1330
29	10	21	21	7.0	---	450	47	190	17	33	381	1140
30	14	16	19	7.0	---	350	46	130	18	28	315	1020
31	15	---	14	7.0	---	310	---	110	---	28	244	---
TOTAL	409.0	372.7	460.7	234.7	1786.0	4870	2990	12051	1260	588.2	36187	48008
MEAN	13.2	12.4	14.9	7.57	63.8	157	99.7	389	42.0	19.0	1167	1600
MAX	22	22	38	12	290	450	230	1840	92	65	6620	5060
MIN	9.0	9.1	8.2	7.0	7.0	51	46	45	17	5.0	12	111
CFSM	.02	.02	.02	.01	.08	.21	.13	.51	.06	.03	1.52	2.09
IN.	.02	.02	.02	.01	.09	.24	.15	.58	.06	.03	1.76	2.33

CAL YR 1976 TOTAL 182945.7 MEAN 500 MAX 6960 MIN 8.2 CFSM .65 IN 8.87
WTR YR 1977 TOTAL 109217.3 MEAN 299 MAX 6620 MIN 5.0 CFSM .39 IN 5.30

05568500 ILLINOIS RIVER AT KINGSTON MINES, IL

LOCATION.--Lat 40°33'10", long 89°46'40", in SE¼SE¼ sec.26, T.7 N., R.6 E., Peoria County, Hydrologic Unit 07130003, on right bank at Kingston Mines, 2.3 mi (3.7 km) downstream from Mackinaw River and at mile 145.3 (233.8 km).

DRAINAGE AREA.--15,819 mi² (40,971 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1558: 1957. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 428.00 ft (130.454 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1940, nonrecording gage at same site at datum 1.65 ft (0.503 m) higher. Oct. 1, 1940, to Mar. 31, 1942, nonrecording gage at present site and datum. Auxiliary water-stage recorder below mouth of Copperas Creek, 8.4 mi (13.5 km) downstream. Prior to Oct. 30, 1967, auxiliary water-stage recorder at mouth of Copperas Creek, 7.9 mi (12.7 km) downstream.

REMARKS.--Water-discharge records poor. Occasional regulation at low flow by navigation dam at Peoria. Since Jan. 17, 1900, flow has included diversion from Lake Michigan through Chicago Sanitary and Ship Canal.

AVERAGE DISCHARGE.--38 years, 14,427 ft³/s (408.6 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,100 ft³/s (2,350 m³/s) May 23, 1943; maximum gage height, 26.02 ft (7.931 m) May 25, 1943; minimum daily discharge, 1,810 ft³/s (51.3 m³/s) Oct. 11, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30,600 ft³/s (867 m³/s) Sept. 22; maximum gage height, 13.72 ft (4.182 m) Sept. 27; minimum daily discharge, 3,170 ft³/s (89.8 m³/s) Oct. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4470	4480	4500	7400	6800	13900	23600	8800	5980	7500	5610	9200
2	4460	3870	4500	7600	6600	13300	22400	9060	6160	8610	5450	14000
3	4450	3500	4300	6800	6400	12100	22900	9060	5800	9060	4860	20700
4	4500	3700	4940	6800	6400	11500	21800	7850	5600	8600	4720	23900
5	4990	4300	5260	7710	6400	11000	21500	8010	5600	7730	4850	24200
6	5330	4500	4540	7270	6400	11000	21300	9800	5200	8140	6590	22500
7	5040	4700	4800	7850	6400	10500	20400	16600	4900	7680	10200	21000
8	5300	4500	4900	8380	7000	10500	20100	20800	4900	7810	11500	18000
9	4890	4300	4910	8420	7000	10000	19400	20300	4800	7970	12200	15000
10	4970	4400	5350	9440	7000	10500	18200	19200	5100	7490	13500	13000
11	4770	4400	5500	10900	7200	9800	15300	18100	5310	7560	18600	12000
12	4330	4500	5600	12000	7600	10500	8550	17200	5950	7320	21700	11000
13	5370	4300	5800	11300	8000	11000	7750	16600	6050	6980	21500	8590
14	4870	4400	5400	9530	8600	11200	9390	16300	6350	6650	20900	8230
15	4170	4200	5200	10100	9000	11000	9990	15600	6370	6030	20000	12100
16	4330	3900	5600	10700	7400	11300	10100	14700	6060	6410	19200	16200
17	4680	3800	6200	9610	7200	13700	10100	12600	5850	7710	17700	21900
18	4070	3800	6600	9000	7200	14200	10000	8860	6200	8000	14300	24800
19	4040	4200	6400	8500	7200	13300	9890	7770	6560	7900	8530	27300
20	4570	4200	5800	8000	7200	13300	9130	7680	6370	7700	8020	28300
21	4160	4300	6400	7700	7600	13600	9570	7290	5600	7340	7970	29700
22	3440	4400	6000	7400	8500	13300	10600	7510	5770	8430	7750	29700
23	4220	4500	5600	7200	10200	12900	11500	6870	5730	7360	7540	29300
24	4590	4800	5200	6600	10900	12800	11600	7200	4900	6800	6390	29400
25	4680	5000	5400	6400	11600	12400	11300	7680	4900	7030	5490	29900
26	4490	5000	5600	6400	13600	12300	10800	8080	4800	6720	4320	29200
27	4180	5600	5600	6400	14000	12100	10500	7930	4400	6800	4700	28700
28	3400	5800	5800	6600	14700	11500	10100	7730	4800	6150	4320	27800
29	3170	5000	6400	6800	---	12100	9930	7120	5390	4060	5980	26300
30	3200	4500	6600	6800	---	14800	9640	6920	5960	5360	6550	24700
31	4780	---	7000	6800	---	16000	---	7260	---	5060	6780	---
TOTAL	137910	132850	171700	252410	234100	377400	417340	346480	167360	224160	317720	636620
MEAN	4449	4428	5539	8142	8361	12170	13910	11180	5579	7231	10250	21220
MAX	5370	5800	7000	12000	14700	16000	23600	20800	6560	9060	21700	29900
MIN	3170	3500	4300	6400	6400	9800	7750	6870	4400	4060	4320	8230

CAL YR 1976 TOTAL 5326010 MEAN 14550 MAX 64200 MIN 3170
WTR YR 1977 TOTAL 3416050 MEAN 9359 MAX 29900 MIN 3170

05568500 ILLINOIS RIVER AT KINGSTON MINES, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1974 to September 1977 (discontinued).

INSTRUMENTATION.--Temperature recorder since October 1974.

REMARKS.--Temperature recorder clock stopped June 24 to July 17.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 31.5°C Aug. 1, 23, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 30.0°C July 18-23; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.5	18.0	18.5	8.0	7.0	7.5	2.0	1.5	1.5	0.0	0.0	0.0
2	19.5	19.0	19.0	8.5	7.5	8.0	1.5	1.0	1.5	0.0	0.0	0.0
3	20.0	19.0	19.5	8.0	7.5	8.0	1.0	1.0	1.0	0.5	0.0	0.0
4	20.5	19.5	20.0	8.0	7.5	7.5	1.5	1.0	1.0	0.5	0.5	0.5
5	20.5	19.0	20.0	7.5	7.0	7.5	1.0	1.0	1.0	0.5	0.5	0.5
6	19.0	18.0	18.5	7.5	6.5	7.0	1.0	1.0	1.0	0.5	0.0	0.5
7	18.0	16.5	17.0	7.0	5.5	6.5	1.0	0.5	0.5	0.0	0.0	0.0
8	16.5	16.0	16.0	5.5	5.0	5.5	1.0	0.5	0.5	0.0	0.0	0.0
9	15.5	15.0	15.0	6.0	5.0	5.5	1.5	0.5	1.0	0.0	0.0	0.0
10	15.5	14.5	15.0	6.0	5.0	5.5	2.0	1.5	1.5	0.0	0.0	0.0
11	15.5	14.5	15.0	5.0	4.0	4.5	1.5	1.0	1.0	0.0	0.0	0.0
12	16.5	15.0	15.5	4.5	4.0	4.0	1.0	0.5	1.0	0.0	0.0	0.0
13	16.5	16.0	16.0	4.0	3.5	4.0	0.5	0.5	0.5	0.0	0.0	0.0
14	17.0	15.5	16.0	4.0	3.5	3.5	1.0	0.5	0.5	0.5	0.0	0.5
15	16.5	15.5	16.0	3.5	3.0	3.0	1.5	1.0	1.0	0.5	0.0	0.5
16	16.0	14.0	15.0	3.0	2.5	3.0	1.5	1.0	1.0	0.0	0.0	0.0
17	14.0	13.0	13.5	3.0	2.5	3.0	1.5	0.5	1.0	0.0	0.0	0.0
18	12.5	11.5	12.0	4.0	3.0	3.5	1.0	0.5	1.0	0.0	0.0	0.0
19	11.5	11.0	11.5	4.5	4.0	4.0	1.0	0.5	1.0	0.0	0.0	0.0
20	11.5	10.0	11.0	4.5	4.0	4.0	1.0	0.5	0.5	0.5	0.0	0.5
21	10.0	9.5	10.0	4.0	3.5	4.0	0.5	0.5	0.5	1.0	0.5	0.5
22	9.5	8.5	9.0	4.0	3.5	3.5	0.5	0.5	0.5	0.5	0.5	0.5
23	9.0	8.5	8.5	3.5	3.0	3.5	0.5	0.5	0.5	0.5	0.5	0.5
24	8.5	8.0	8.0	4.5	3.5	4.0	0.5	0.5	0.5	0.5	0.5	0.5
25	8.5	8.0	8.5	4.5	3.5	4.0	0.5	0.5	0.5	1.0	0.5	0.5
26	9.0	8.0	8.5	5.0	4.5	5.0	0.5	0.0	0.5	1.0	0.5	0.5
27	9.0	8.0	8.5	5.0	4.5	4.5	0.5	0.5	0.5	0.5	0.5	0.5
28	8.5	8.0	8.0	4.5	3.5	4.0	1.0	0.5	0.5	0.5	0.5	0.5
29	8.5	8.0	8.0	3.5	2.0	2.5	0.5	0.0	0.5	0.5	0.5	0.5
30	9.0	8.0	8.5	2.0	1.5	1.5	0.0	0.0	0.0	0.5	0.5	0.5
31	8.5	7.5	8.0	---	---	---	0.0	0.0	0.0	0.5	0.5	0.5
MONTH	20.5	7.5	13.5	8.5	1.5	4.5	2.0	0.0	1.0	1.0	0.0	0.5

05568500 ILLINOIS RIVER AT KINGSTON MINES, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.5	0.5	0.5	3.0	2.0	2.5	10.5	9.5	10.0	16.5	15.5	16.0
2	0.5	0.5	0.5	3.5	2.5	3.0	11.5	10.0	11.0	17.5	16.0	16.5
3	1.0	0.5	0.5	3.5	2.5	3.0	12.0	11.5	12.0	18.5	17.0	18.0
4	1.0	0.5	1.0	4.0	3.5	4.0	11.5	11.0	11.5	19.5	18.0	19.0
5	1.0	0.5	0.5	4.5	4.0	4.5	11.0	9.5	10.5	21.0	19.0	20.0
6	0.5	0.5	0.5	5.0	4.0	4.5	9.0	8.0	8.5	20.5	20.0	20.0
7	0.5	0.5	0.5	5.5	4.0	4.5	9.5	8.0	8.5	21.0	20.0	20.5
8	1.0	0.5	0.5	6.5	5.0	5.5	11.0	9.0	10.0	20.5	20.0	20.5
9	1.5	1.0	1.0	8.0	6.5	7.0	12.0	10.5	11.0	19.5	19.0	19.5
10	1.5	1.0	1.5	8.5	7.0	7.5	13.0	11.5	12.0	19.0	18.0	18.5
11	2.0	1.5	1.5	10.0	8.5	9.0	15.0	13.0	14.0	19.5	18.5	19.0
12	2.0	1.5	1.5	10.0	9.0	10.0	17.0	15.0	16.0	20.5	19.0	20.0
13	1.5	1.5	1.5	10.0	9.5	10.0	17.5	16.0	17.0	21.5	20.0	21.0
14	1.5	1.0	1.0	10.5	9.5	10.0	18.5	17.0	17.5	22.0	21.0	21.5
15	1.5	1.0	1.0	10.5	10.0	10.0	19.0	17.5	18.0	23.0	22.0	22.5
16	1.5	1.0	1.0	11.0	10.0	10.5	19.5	18.0	18.5	24.0	23.0	23.5
17	1.5	1.0	1.0	10.5	9.5	10.0	20.0	18.5	19.5	24.5	23.5	24.0
18	2.0	1.0	1.5	9.5	8.5	9.0	20.5	19.5	20.0	25.5	24.0	24.5
19	2.0	1.0	1.5	8.5	7.5	8.0	21.0	20.0	20.5	26.5	25.0	25.5
20	1.5	1.0	1.0	8.0	7.0	7.5	21.0	20.0	20.5	26.5	25.5	26.0
21	1.5	1.0	1.0	7.5	7.0	7.0	20.5	20.0	20.0	26.5	25.5	26.0
22	2.0	1.0	1.5	7.5	6.5	7.0	20.0	18.5	19.0	26.0	25.0	25.5
23	2.5	2.0	2.5	7.5	6.0	6.5	18.5	17.0	17.5	26.0	24.5	25.5
24	2.5	2.0	2.0	8.0	6.0	7.0	17.5	16.0	16.5	26.0	24.5	25.5
25	2.0	1.5	1.5	9.0	7.0	8.0	16.5	15.5	16.0	26.5	25.0	26.0
26	2.0	1.0	1.5	10.0	8.5	9.0	16.5	15.0	16.0	28.0	25.5	26.5
27	1.0	1.0	1.0	10.5	9.5	10.0	17.0	15.5	16.5	28.0	26.0	27.0
28	2.0	1.0	1.0	11.5	10.5	11.0	17.0	16.5	16.5	27.5	26.0	27.0
29	---	---	---	12.5	11.5	12.0	17.5	15.5	16.5	27.5	26.5	27.0
30	---	---	---	13.0	12.0	12.5	16.5	15.5	16.0	27.5	26.5	27.0
31	---	---	---	12.0	10.5	11.5	---	---	---	27.5	26.5	27.0
MONTH	2.5	0.5	1.0	13.0	2.0	8.0	21.0	8.0	15.0	28.0	15.5	23.0

		JUNE			JULY			AUGUST			SEPTEMBER	
1	27.0	26.0	26.5	---	---	---	28.5	27.5	28.0	27.5	27.0	27.5
2	26.0	24.5	25.5	---	---	---	28.5	27.0	28.0	28.0	27.0	27.0
3	25.0	23.5	24.0	---	---	---	28.0	27.0	27.5	27.0	25.5	26.5
4	25.0	24.0	24.5	---	---	---	27.5	26.0	27.0	26.5	26.0	26.0
5	26.0	24.0	25.0	---	---	---	26.5	26.0	26.0	27.0	25.5	26.5
6	25.0	24.0	25.0	---	---	---	26.5	24.5	25.5	27.0	26.0	26.5
7	24.5	23.5	24.0	---	---	---	26.0	24.5	25.0	26.5	25.5	26.0
8	24.0	22.5	23.5	---	---	---	24.0	23.5	24.0	26.5	25.5	26.0
9	23.0	21.5	22.5	---	---	---	24.5	24.0	24.0	26.5	25.5	26.0
10	22.0	20.0	21.5	---	---	---	25.5	24.0	25.0	25.5	25.0	25.5
11	21.5	20.5	21.5	---	---	---	26.0	25.0	25.5	25.0	24.0	24.5
12	22.0	21.0	21.5	---	---	---	25.5	24.5	25.0	23.5	22.5	23.0
13	21.5	21.0	21.0	---	---	---	26.0	24.5	25.5	22.5	21.5	22.0
14	22.0	20.5	21.0	---	---	---	27.0	25.5	26.0	21.5	21.0	21.5
15	22.5	20.5	21.5	---	---	---	26.5	26.0	26.5	21.0	20.5	21.0
16	23.5	22.0	22.5	---	---	---	27.0	26.0	26.5	21.0	20.5	20.5
17	25.5	23.5	24.5	---	---	---	27.0	25.0	26.5	21.5	20.5	21.0
18	26.0	25.0	25.5	30.0	29.5	29.5	26.0	25.0	25.5	22.0	21.5	21.5
19	27.0	25.5	26.0	30.0	28.5	29.5	25.5	24.5	25.0	21.5	21.0	21.5
20	27.0	25.5	26.5	30.0	29.0	29.5	25.0	24.0	25.0	21.0	20.0	20.5
21	26.5	25.5	26.0	30.0	29.0	29.5	25.5	24.0	25.0	20.5	20.0	20.0
22	26.0	24.5	25.0	30.0	29.0	29.5	25.5	24.0	25.0	20.5	20.0	20.5
23	25.5	24.0	24.5	30.0	28.5	29.0	25.5	25.0	25.0	20.5	20.0	20.5
24	---	---	---	29.5	29.0	29.0	26.0	24.5	25.0	21.0	20.5	20.5
25	---	---	---	29.0	28.5	29.0	26.0	24.5	25.0	21.0	20.5	20.5
26	---	---	---	28.5	27.0	28.0	26.5	25.0	25.5	21.0	20.5	20.5
27	---	---	---	28.0	27.0	27.5	27.0	25.5	26.0	21.0	20.5	20.5
28	---	---	---	27.5	26.5	27.0	26.5	25.5	26.5	20.5	20.0	20.5
29	---	---	---	28.0	27.0	27.5	27.0	25.5	26.0	20.5	20.0	20.5
30	---	---	---	28.5	27.5	28.0	27.0	26.0	26.5	20.5	20.0	20.5
31	---	---	---	28.5	27.5	28.0	27.5	26.5	27.0	---	---	---
MONTH	27.0	20.0	24.0	30.0	26.5	28.5	28.5	23.5	26.0	28.0	20.0	23.0
YEAR	30.0	0.0	13.0									

05568800 INDIAN CREEK NEAR WYOMING, IL

LOCATION.--Lat 41°01'06", long 89°50'07", in SE¼SE¼ sec.17, T.12 N., R.6 E., Stark County, Hydrologic Unit 07130005, on left bank at upstream side of county highway bridge, 2.5 mi (4.0 km) upstream from mouth and 4.5 mi (7.2 km) southwest of Wyoming.

DRAINAGE AREA.--62.7 mi² (162.4 km²).

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 616.78 ft (187.995 m) above mean sea level.

REMARKS.--Records fair except those for winter periods and those for period of no gage-height record, May 9 to June 9, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--18 years, 44.4 ft³/s (1.257 m³/s), 9.62 in/yr (244 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,540 ft³/s (185 m³/s) June 22, 1974, gage height, 13.81 ft (4.209 m), from rating curve extended above 1,400 ft³/s (39.6 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 0.1 ft³/s (0.003 m³/s) Oct. 7-12, 1963, Sept. 16, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (20 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 4	2145	*976	27.6	*8.80	2.682
Sept. 24	0300	807	22.9	8.26	2.518

Minimum daily discharge, 1.4 ft³/s (0.04 m³/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	3.3	2.3	1.8	1.5	5.0	22	7.0	10	2.2	4.4	17
2	1.7	3.1	2.0	1.7	1.5	8.0	20	7.0	9.0	1.9	4.3	19
3	2.1	2.4	1.9	1.7	1.5	15	23	7.0	8.6	1.7	7.6	13
4	1.7	2.2	1.8	1.7	1.5	13	19	166	8.2	1.6	7.3	9.6
5	4.6	3.1	1.7	1.7	1.5	11	17	205	8.0	1.5	4.8	8.0
6	14	1.9	1.7	1.7	1.5	10	15	221	8.0	1.5	6.1	7.2
7	5.6	2.2	1.7	1.7	1.5	9.0	14	197	13	1.9	82	6.3
8	2.6	2.2	1.8	1.7	1.5	9.0	14	129	20	5.2	59	5.8
9	2.4	1.9	2.3	1.7	1.8	9.0	13	88	12	13	47	5.2
10	2.4	1.9	3.5	1.7	2.5	10	11	64	7.8	12	45	4.9
11	2.4	1.9	2.6	1.7	10	10	10	48	7.4	8.0	27	5.1
12	2.8	2.8	2.4	1.7	7.2	61	10	40	7.4	5.0	20	5.6
13	2.1	2.8	2.3	1.7	4.3	28	10	34	5.9	3.7	15	32
14	1.7	4.1	2.2	1.7	3.3	19	9.9	29	5.2	3.4	11	25
15	1.9	2.4	2.2	1.7	2.8	14	8.8	25	4.6	2.9	8.5	79
16	2.1	2.8	2.2	1.7	2.4	11	8.1	21	4.4	22	14	130
17	2.1	1.6	2.2	1.7	2.2	9.2	7.8	18	4.6	29	14	87
18	2.2	2.6	2.2	1.7	2.1	12	7.9	16	6.0	11	7.8	334
19	3.3	1.9	2.2	1.7	2.0	14	9.1	14	5.1	6.6	6.5	185
20	4.3	1.6	2.2	1.7	1.9	14	9.9	12	3.8	4.8	6.2	126
21	3.5	1.6	2.2	1.6	1.8	18	8.0	20	3.0	3.9	6.0	99
22	3.3	2.4	2.1	1.6	1.7	17	7.4	16	2.9	3.3	5.4	84
23	2.6	2.2	2.1	1.6	2.0	17	7.4	14	2.9	2.8	4.5	74
24	3.5	1.7	2.1	1.6	30	14	7.4	12	3.3	2.5	4.1	326
25	3.5	1.6	2.1	1.6	25	13	7.4	11	3.0	2.2	3.7	127
26	3.3	2.1	2.1	1.6	14	15	7.4	10	2.6	2.0	3.6	106
27	2.8	3.8	2.1	1.6	9.0	53	7.3	9.4	2.4	1.7	3.8	86
28	2.8	4.1	2.1	1.6	6.0	41	7.1	9.0	2.2	1.6	11	74
29	2.8	3.3	2.0	1.6	---	31	7.0	9.0	2.1	1.5	53	67
30	3.1	2.7	2.0	1.6	---	26	7.0	25	2.5	1.4	19	63
31	4.3	---	1.9	1.6	---	25	---	15	---	10	12	---
TOTAL	99.4	74.2	66.2	51.7	144.0	561.2	332.9	1498.4	185.9	171.8	523.6	2210.7
MEAN	3.21	2.47	2.14	1.67	5.14	18.1	11.1	48.3	6.20	5.54	16.9	73.7
MAX	14	4.1	3.5	1.8	30	61	23	221	20	29	82	334
MIN	1.7	1.6	1.7	1.6	1.5	5.0	7.0	7.0	2.1	1.4	3.6	4.9
CFSM	.05	.04	.03	.03	.08	.29	.18	.77	.10	.09	.27	1.18
IN.	.06	.04	.04	.03	.09	.33	.20	.89	.11	.10	.31	1.31

CAL YR 1976 TOTAL 17246.7 MEAN 47.1 MAX 1420 MIN 1.0 CFSM .75 IN 10.23
WTR YR 1977 TOTAL 5920.0 MEAN 16.2 MAX 334 MIN 1.4 CFSM .26 IN 3.51

05569500 SPOON RIVER AT LONDON MILLS, IL

LOCATION.--Lat 40°42'51", long 90°16'00", in NW¼NE¼ sec.3, T.8 N., R.2 E., Fulton County, Hydrologic Unit 07130005, on left bank at downstream side of bridge in London Mills, 0.5 mi (0.8 km) upstream from Chicago and North Western Railroad bridge, 1.4 mi (2.3 km) upstream from Cedar Creek, and 2.8 mi (4.5 km) downstream from Littlers Creek.

DRAINAGE AREA.--1,062 mi² (2,751 km²).

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WSP 1175: 1947. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 508.97 ft (155.134 m) above mean sea level. Prior to July 13, 1945, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--35 years, 678 ft³/s (19.20 m³/s), 8.67 in/yr (220 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41,000 ft³/s (1,160 m³/s) June 23, 1974, gage height, 28.03 ft (8.544 m), from graph based on gage readings; minimum, 5.6 ft³/s (0.16 m³/s) Sept. 16, 17, 1959, Feb. 2-8, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 26, 1924, reached a stage of 27.08 ft (8.254 m), from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,500 ft³/s (130 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Aug. 9	0330	*5490	155	*16.50	5.029	Sept. 24	1900	5270	149	16.19	4.935
Sept. 19	0715	4940	140	15.68	4.779						

Minimum daily discharge, 5.6 ft³/s (0.16 m³/s) Feb. 2-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	129	66	21	5.8	170	831	143	212	255	53	388
2	49	129	62	20	5.6	180	742	144	180	546	60	285
3	45	133	56	19	5.6	200	667	771	163	376	65	393
4	43	126	52	17	5.6	170	589	291	155	214	57	362
5	58	117	48	15	5.6	160	582	1940	146	130	90	276
6	209	107	45	14	5.6	150	549	3160	148	105	103	229
7	230	100	43	13	5.6	140	486	3240	143	100	2210	196
8	206	97	40	12	5.6	140	432	1870	145	89	4470	193
9	146	100	37	12	6.5	150	394	1290	157	94	3900	180
10	108	97	34	11	20	170	368	1060	197	110	1800	148
11	93	97	32	10	70	200	340	878	288	107	1300	125
12	80	100	31	10	250	1220	307	759	357	83	983	112
13	73	108	31	10	500	1440	281	667	291	71	687	243
14	66	89	31	10	450	976	272	598	192	62	455	724
15	61	94	30	10	200	680	273	545	165	56	340	925
16	61	96	30	10	100	522	271	491	146	70	247	2090
17	62	86	30	10	86	425	256	444	140	209	279	1970
18	61	76	30	10	74	401	235	413	144	1010	292	2270
19	69	72	30	10	68	387	220	380	154	695	213	4650
20	78	68	30	10	64	373	217	368	192	398	165	3190
21	79	66	30	10	62	387	239	364	129	283	144	2080
22	87	62	30	10	58	426	276	331	100	222	129	1730
23	84	62	30	10	400	475	256	382	96	171	117	1450
24	83	64	30	10	1200	486	224	267	94	137	104	3400
25	87	66	30	10	1000	472	194	244	96	133	90	3770
26	87	70	29	9.5	600	437	179	233	90	114	82	2230
27	79	72	27	8.6	350	399	169	227	80	93	78	1690
28	76	74	26	7.8	220	474	158	214	76	79	99	1390
29	74	74	25	7.0	---	1320	151	216	80	68	661	1220
30	79	70	24	6.4	---	1430	143	536	100	59	914	1120
31	124	---	22	6.0	---	1090	---	296	---	53	614	---
TOTAL	2795	2701	1091	349.3	5823.5	15648	10301	22660	4656	6192	20801	39029
MEAN	90.2	90.0	35.2	11.3	208	505	343	731	155	200	671	1301
MAX	230	133	66	21	1200	1440	831	3240	357	1010	4470	4650
MIN	43	62	22	6.0	5.6	140	143	143	76	53	53	112
CFSM	.09	.09	.03	.01	.20	.48	.32	.69	.15	.19	.63	1.23
IN.	.10	.09	.04	.01	.20	.55	.36	.79	.16	.22	.73	1.37

CAL YR 1976 TOTAL 256028.0 MEAN 700 MAX 11100 MIN 22 CFSM .66 IN 8.97
WTR YR 1977 TOTAL 132046.8 MEAN 362 MAX 4650 MIN 5.6 CFSM .34 IN 4.63

05570000 SPOON RIVER AT SEVILLE, IL

LOCATION.--Lat 40°29'24", long 90°20'26", in NW¼ sec.24, T.6 N., R.1 E., Fulton County, Hydrologic Unit 07130005, near center of span on downstream side of bridge on State Highway 95, 500 ft (152 m) downstream from Shaw Creek, 0.4 mi (0.6 km) northeast of Seville, and 0.5 mi (0.8 km) upstream from Toledo, Peoria, and Western Railroad bridge.

DRAINAGE AREA.--1,636 mi² (4,237 km²).

PERIOD OF RECORD.--July 1914 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1208: 1917, 1920, 1922, 1924, 1926-27, 1929(M). WSP 1308: 1919(M), 1936(M), 1938(M), 1942(M), 1945(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 467.04 ft (142.354 m) above mean sea level. Prior to May 9, 1935, nonrecording gage at site 0.5 mi (0.8 km) downstream and May 9, 1935, to June 30, 1976, at site 0.47 mi (0.76 km) downstream at same datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--63 years, 1,017 ft³/s (28.80 m³/s), 8.44 in/yr (214 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,300 ft³/s (1,060 m³/s) Aug. 22, 1924, gage height, 30.77 ft (9.379 m), from graph based on gage readings; maximum gage height, 31.82 ft (9.699 m) June 24, 1974, from graph based on gage readings; minimum discharge observed, 3.8 ft³/s (0.11 m³/s) July 31, Aug. 27-29, 1914.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1883 reached a stage of about 33.0 ft (10.06 m), backwater from ice, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft³/s (170 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 6	1430	7270	206	18.53	5.648	Sept. 19	2345	6380	181	17.28	5.267
Aug. 8	1800	*8840	250	*20.30	6.187	Sept. 25	1315	6430	182	17.36	5.291

Minimum daily discharge, 45 ft³/s (1.27 m³/s) Feb. 3-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	164	95	58	46	412	1580	207	444	266	95	785
2	93	167	90	56	46	388	1300	207	343	738	84	604
3	82	160	82	54	45	380	1160	574	282	657	173	604
4	74	155	76	54	45	409	1010	1350	262	327	132	716
5	97	153	72	54	45	406	958	2500	249	221	272	563
6	228	153	70	54	45	358	903	6320	246	181	2370	485
7	497	144	70	54	45	304	798	5920	245	146	1550	426
8	351	153	70	54	45	286	700	4070	258	125	6710	455
9	264	115	70	54	50	300	629	2590	255	126	7400	514
10	196	109	70	54	80	337	584	2010	398	140	3790	371
11	157	109	70	54	150	423	545	1730	516	193	2090	311
12	139	109	70	54	500	2110	501	1500	532	131	1580	287
13	121	115	70	54	1300	2760	456	1320	480	97	1180	720
14	104	111	70	54	1000	2080	428	1170	370	86	869	1640
15	96	128	70	54	500	1440	428	1080	277	83	665	2090
16	86	158	70	54	400	1130	417	999	242	120	586	3310
17	80	128	70	54	320	911	395	909	228	307	491	3250
18	80	115	70	54	280	806	368	828	499	1050	515	3910
19	86	109	70	54	260	776	369	744	303	1080	463	5700
20	92	101	70	54	260	736	336	699	273	470	352	5690
21	103	101	70	54	260	684	357	686	274	298	305	3820
22	108	99	70	53	260	752	411	682	214	335	269	2800
23	110	95	70	52	1300	818	432	616	186	181	251	2360
24	111	95	70	51	2500	878	374	631	180	139	241	2950
25	107	97	70	50	1800	874	325	516	182	189	214	6100
26	109	101	70	50	1000	822	287	492	177	178	192	4270
27	111	113	70	49	763	756	265	484	171	134	183	2930
28	105	109	66	48	529	983	244	452	169	97	373	2370
29	95	109	64	48	---	2050	227	465	145	74	1220	2040
30	100	109	62	47	---	2660	214	588	168	61	1930	2210
31	131	---	60	47	---	2120	---	730	---	208	1170	---
TOTAL	4226	3684	2207	1635	13874	30149	16981	43069	8566	8436	37715	64281
MEAN	136	123	71.2	52.7	496	973	566	1389	286	272	1217	2143
MAX	497	167	95	58	2500	2760	1580	6320	532	1080	7400	6100
MIN	74	95	60	47	45	286	214	207	145	61	84	287
CFSM	.08	.08	.04	.03	.30	.60	.35	.85	.18	.17	.74	1.31
IN.	.10	.08	.05	.04	.32	.69	.39	.98	.19	.19	.86	1.46

CAL YR 1976 TOTAL 411536 MEAN 1124 MAX 16100 MIN 60 CFSM .69 IN 9.36
WTR YR 1977 TOTAL 234823 MEAN 643 MAX 7400 MIN 45 CFSM .39 IN 5.34

05570350 BIG CREEK AT ST. DAVID, IL

LOCATION.--Lat 40°29'51", long 90°03'12", in S½SE¼ sec.16, T.6 N., R.4 E., Fulton County, Hydrologic Unit 07130005, on right bank 40 ft (12 m) upstream from highway bridge at north edge of St. David, 4.5 mi (7.2 km) upstream from Evelyn Branch.

DRAINAGE AREA.--26.7 mi^2 (69.2 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1971 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 548.88 ft (167.299 m) above mean sea level.

REMARKS.--Water-discharge records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--5 years, 29.3 ft^3/s (0.830 m^3/s), 14.90 in/yr (378 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,080 ft^3/s (58.9 m^3/s) June 23, 1974, gage height, 10.25 ft (3.124 m); minimum daily, 2.6 ft^3/s (0.074 m^3/s) Feb. 1-10, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft^3/s (5.7 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 12	0445	362	10.3	5.50	1.676
May 6	1530	477	13.5	6.00	1.829
Aug. 6	1315	*738	20.9	*6.92	2.109
Aug. 8	1815	716	20.3	6.85	2.088
Sept. 18	1745	489	13.8	6.44	1.963

Minimum daily discharge, 2.6 ft^3/s (0.074 m^3/s) Feb. 1-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	7.0	4.5	3.5	2.6	3.7	24	8.4	8.3	9.5	5.6	7.8
2	10	6.1	4.0	3.5	2.6	3.4	27	9.0	8.2	6.2	6.0	7.2
3	15	6.5	4.0	3.5	2.6	6.1	25	8.8	8.0	5.3	8.1	6.5
4	19	5.7	4.0	3.5	2.6	5.4	27	20	7.5	5.1	6.4	5.8
5	29	5.4	4.0	3.5	2.6	4.2	18	62	7.8	5.3	6.2	5.6
6	19	5.7	4.0	3.5	2.6	3.5	15	264	8.3	5.2	388	5.8
7	6.1	5.0	4.0	3.5	2.6	3.6	15	108	7.2	5.2	146	5.6
8	4.8	6.0	4.2	3.5	2.6	4.6	14	50	8.8	5.2	325	6.8
9	5.2	5.4	5.0	3.5	2.6	7.8	14	36	8.3	6.5	142	5.4
10	5.4	5.0	4.2	3.5	2.6	16	13	28	9.7	5.4	80	4.6
11	6.5	5.4	4.0	3.5	3.5	31	12	24	10	5.4	56	4.1
12	8.3	5.0	4.0	3.5	15	200	12	22	8.6	5.4	45	5.2
13	7.5	5.0	4.0	3.5	12	65	12	23	7.8	5.5	29	28
14	7.5	5.0	4.0	3.5	8.0	40	11	24	8.6	5.5	15	13
15	7.8	5.2	4.0	3.5	5.0	31	11	24	6.8	5.6	11	26
16	7.2	5.6	4.0	3.5	4.0	24	11	22	6.1	11	12	28
17	11	6.2	4.0	3.5	3.5	21	10	18	8.6	10	13	27
18	15	6.2	4.0	3.5	3.5	24	9.9	19	21	5.8	12	220
19	19	6.0	4.0	3.5	3.5	19	11	18	9.2	5.8	12	79
20	19	5.6	4.0	3.5	3.5	23	14	18	7.5	5.1	12	39
21	16	5.4	4.0	3.5	5.0	22	16	20	6.5	5.9	12	38
22	6.8	5.2	4.0	3.5	15	19	14	14	6.4	5.7	10	35
23	6.1	5.0	4.0	3.5	60	14	12	11	6.7	5.2	9.1	31
24	8.0	5.0	4.0	3.5	45	13	11	11	5.8	5.1	8.6	39
25	8.3	5.2	4.0	3.5	25	12	10	9.0	6.4	5.2	8.6	29
26	9.7	5.0	4.0	3.5	10	11	9.5	9.7	5.8	5.5	9.4	29
27	12	6.0	3.9	3.5	6.7	12	8.6	11	5.4	5.5	10	30
28	10	8.0	3.8	3.3	4.3	44	9.2	10	5.9	5.6	10	34
29	17	6.0	3.7	3.1	---	55	9.2	9.6	6.3	5.6	12	39
30	21	5.0	3.6	2.9	---	35	8.7	9.4	7.1	5.4	8.0	40
31	10	---	3.5	2.7	---	27	---	9.0	---	10	8.0	---
TOTAL	351.5	168.8	124.4	106.5	258.5	800.3	414.1	929.9	238.6	188.7	1436.0	874.4
MEAN	11.3	5.63	4.01	3.44	9.23	25.8	13.8	30.0	7.95	6.09	46.3	29.1
MAX	29	8.0	5.0	3.5	60	200	27	264	21	11	388	220
MIN	4.3	5.0	3.5	2.7	2.6	3.4	8.6	8.4	5.4	5.1	5.6	4.1
CFSM	.42	.21	.15	.13	.35	.97	.52	1.12	.30	.23	1.73	1.09
IN.	.49	.24	.17	.15	.36	1.11	.58	1.30	.33	.26	2.00	1.22

CAL YR 1976 TOTAL 7331.1 MEAN 20.0 MAX 418 MIN 3.0 CFSM .75 IN 10.21
WTR YR 1977 TOTAL 5891.7 MEAN 16.1 MAX 388 MIN 2.6 CFSM .60 IN 8.21

05570350 BIG CREEK AT ST. DAVID, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1972 to current year.
WATER TEMPERATURES: December 1971 to current year.
SUSPENDED SEDIMENT DISCHARGE: November 1971 to current year.

INSTRUMENTATION.--Specific conductance and temperature recorder since December 1971.

REMARKS.--Interruptions in daily conductance and temperature records were due to instrument malfunctions. Suspended sediment samples were collected by a local observer on an approximate twice weekly basis with additional samples collected during high runoff periods.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE (April 1972 to water year 1976): Maximum, 1,780 micromhos Sept. 18, 19, 1974, Feb. 13, 1975; minimum, 307 micromhos July 23, 1975.
WATER TEMPERATURES: Maximum recorded, 33.0°C July 5, 6, 1977; minimum, 0.0°C on many days during winter periods.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,550 mg/L Apr. 1, 1973; minimum daily mean, 4 mg/L Feb. 7, 1972.
SEDIMENT LOADS: Maximum daily, 12,000 tons (10,900 tonnes) Apr. 1, 1973; minimum daily, 0.05 ton (0.04 tonne) Feb. 7, 1972.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 33.0°C July 5, 6; minimum, 0.0°C on many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,970 mg/L Aug. 6; minimum daily mean, 15 mg/L Feb. 2.
SEDIMENT LOADS: Maximum daily, 3,120 tons (2,830 tonnes) Aug. 6; minimum daily, 0.11 ton (0.10 tonne) Aug. 1-10.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM MATERIAL (MG/KG)
NOV											
03...	1720	5.3	1240	7.6	5.5	6.9	13.6	--	--	--	--
DEC											
02...	1500	4.0	1440	7.6	--	.4	12.7	--	--	--	--
JAN											
06...	1200	3.5	1340	7.1	--	.0	9.9	--	--	--	--
FEB											
03...	1300	2.6	1280	7.2	--	.0	12.6	--	--	--	--
MAR											
09...	1245	9.3	1300	6.3	18.0	8.4	13.2	--	--	--	--
APR											
14...	0945	11	1210	7.5	24.5	19.1	11.2	--	--	--	--
MAY											
11...	1625	24	1080	7.3	--	18.1	8.4	--	--	--	--
JUN											
15...	1550	6.8	1120	7.3	--	22.7	11.6	2.4	32	2900	2000
JUL											
13...	1020	5.4	1260	7.2	--	26.9	6.9	--	--	--	--
AUG											
11...	1735	61	930	7.4	35.0	25.0	8.5	--	--	--	--
SEP											
08...	1130	7.5	1160	7.5	--	23.1	7.7	--	--	--	--

05570350 BIG CREEK AT ST. DAVID, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 03...	--	--	--	--	--	--	--	--	--	--	8.0
DEC 02...	--	--	--	--	--	--	--	--	--	--	10
JAN 06...	--	--	--	--	--	--	--	--	--	--	9.7
FEB 03...	--	--	--	--	--	--	--	--	--	--	11
MAR 09...	--	--	--	--	--	--	--	--	--	--	3.5
APR 14...	--	--	--	--	--	--	--	--	--	--	8.1
MAY 11...	--	--	--	--	--	--	--	--	--	--	8.2
JUN 15...	11	<10	10	<10	10	4500	<10	620	.0	50	6.3
JUL 13...	--	--	--	--	--	--	--	--	--	--	8.2
AUG 11...	--	--	--	--	--	--	--	--	--	--	5.7
SEP 08...	--	--	--	--	--	--	--	--	--	--	8.2

DATE	PCB IN BOTTOM MA-TERIAL (UG/KG)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	DDD IN BOTTOM MA-TERIAL (UG/KG)	DDE IN BOTTOM MA-TERIAL (UG/KG)	DDT IN BOTTOM MA-TERIAL (UG/KG)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	ETHION IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)
JUN 15...	0	.0	24	5.6	2.8	.0	.0	8.7	.0	.0	.0

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG)	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG)	2,4-D IN BOTTOM MA-TERIAL (UG/KG)	2,4,5-T IN BOTTOM MA-TERIAL (UG/KG)	SILVEX IN BOTTOM MA-TERIAL (UG/KG)
JUN 15...	.0	.0	.0	.0	.0	0	.0	0	0	0

05570350 BIG CREEK AT ST. DAVID, IL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1280	1240	1250	1210	1130	1160	1400	1350	1370	1450	1420	1440
2	1310	1260	1280	1260	1220	1240	1420	1400	1410	1460	1430	1440
3	1330	1290	1310	1260	1240	1250	1420	1410	1420	1440	1380	1410
4	1340	1310	1330	1240	1210	1220	1430	1420	1420	1400	1380	1380
5	1330	844	1220	1240	1230	1230	1440	1430	1430	1410	1320	1350
6	972	747	842	1240	1210	1230	1430	1390	1410	1410	1350	1380
7	1090	993	1040	1380	1220	1270	1390	1350	1370	1440	1360	1400
8	1140	1090	1120	1260	1230	1240	1360	1350	1360	1420	1380	1400
9	1150	1120	1140	1290	1260	1270	1380	1370	1370	1420	1390	1410
10	1170	1130	1160	1290	1230	1260	1380	1350	1360	1420	1400	1410
11	1210	1140	1180	1260	1230	1250	1470	1340	1370	1410	1270	1320
12	1210	1180	1190	1260	1240	1250	1490	1480	1490	---	---	---
13	1230	1170	1200	1270	1250	1260	1490	1470	1480	---	---	---
14	1270	1180	1200	1290	1260	1280	1470	1450	1460	---	---	---
15	1290	1210	1250	1290	1260	1270	1460	1390	1420	---	---	---
16	1290	1230	1250	1280	1270	1280	1390	1340	1360	---	---	---
17	1270	1240	1250	1280	1250	1270	1350	1310	1330	---	---	---
18	1250	1230	1240	1270	1230	1250	1320	1300	1310	---	---	---
19	1240	1200	1220	1290	1260	1280	1300	1270	1280	---	---	---
20	1200	1140	1180	1290	1280	1290	1290	1260	1270	---	---	---
21	1200	1120	1150	1300	1290	1290	1350	1260	1300	---	---	---
22	1240	1160	1200	1290	1280	1280	1350	1330	1350	---	---	---
23	1190	1170	1180	1290	1270	1280	1330	1300	1310	---	---	---
24	1220	1160	1170	1300	1290	1300	1320	1300	1310	---	---	---
25	1280	1140	1180	1290	1280	1290	1370	1320	1340	---	---	---
26	1220	1170	1210	1320	1290	1310	1370	1270	1300	---	---	---
27	1210	1160	1180	1300	1270	1280	1280	1270	1270	---	---	---
28	1220	1140	1170	1280	1260	1270	1290	1260	1270	---	---	---
29	1240	1180	1200	1320	1260	1280	1330	1270	1290	---	---	---
30	1350	1200	1270	1350	1330	1330	1370	1340	1350	---	---	---
31	1210	1010	1130	---	---	---	1410	1350	1370	---	---	---
MONTH	1350	747	1190	1380	1130	1270	1490	1260	1360	1460	1270	1390

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				---	---	---	1080	1060	1070	1290	1200	1260
2				---	---	---	1080	1000	1060	1300	1230	1270
3				---	---	---	1130	1070	1100	1300	1270	1290
4				---	---	---	1200	1110	1130	1290	543	1170
5				---	---	---	1120	1090	1100	964	516	782
6				---	---	---	1150	1120	1130	788	---	---
7				---	---	---	1150	1140	1150	965	806	895
8				---	---	---	1180	1140	1160	1010	967	987
9				---	---	---	1190	1170	1180	1050	1010	1030
10				---	---	---	1210	1170	1190	1080	1050	1060
11				---	---	---	1200	1160	1180	1100	1060	1090
12				---	---	---	1180	1140	1170	1120	1090	1110
13				---	---	---	1190	1150	1170	1120	1090	1110
14				---	---	---	1230	1190	1210	1150	1120	1140
15				---	---	---	1230	1220	1220	1160	1150	1160
16				1120	1090	1110	1230	1210	1220	1160	1150	1160
17				1140	1120	1130	1270	1220	1240	1160	1150	1160
18				1150	1090	1120	1280	1260	1270	1160	1140	1150
19				1150	1130	1140	1280	1240	1270	1150	1140	1150
20				1150	1110	1130	1240	990	1160	1160	1120	1150
21				1150	1130	1140	1210	1090	1170	1150	1080	1130
22				1140	1120	1130	1180	1040	1120	1160	1120	1140
23				1410	1140	1220	1200	1180	1190	1180	1020	1140
24				1180	1160	1170	1220	1200	1210	1090	792	977
25				1180	1160	1170	1250	1210	1230	1150	1070	1120
26				1180	1140	1170	1230	1230	1230	1160	1130	1150
27				1170	1150	1160	1250	1230	1240	1130	1090	1110
28				1180	737	1020	1260	1230	1250	1100	1090	1090
29				957	808	885	1240	1220	1230	1100	1090	1100
30				1030	963	995	1260	1240	1250	1090	1080	1080
31				1070	1040	1050	---	---	---	1080	1060	1080
MONTH				1410	737	1110	1280	990	1180	1300	516	1110

05570350 BIG CREEK AT ST. DAVID, IL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1080	1060	1070	1130	856	1020	---	---	---	1170	1150	1160
2	1080	1060	1070	1130	981	1070	---	---	---	1170	1150	1160
3	1060	1050	1060	1180	1140	1160	---	---	---	1170	1140	1160
4	1080	1060	1070	1260	1180	1220	---	---	---	1190	1150	1170
5	1090	1070	1080	1300	1230	1270	---	---	---	1200	1150	1170
6	1090	1080	1080	1330	1290	1310	---	---	---	1190	1160	1180
7	1100	1070	1090	1330	1270	1300	---	---	---	1220	1170	1190
8	1120	1060	1090	---	---	---	---	---	---	1200	1140	1170
9	1110	985	1060	---	---	---	---	---	---	1190	1110	1150
10	1110	1020	1070	---	---	---	---	---	---	1220	1140	1170
11	1090	800	956	---	---	---	---	---	---	1230	1180	1200
12	1020	891	975	---	---	---	970	910	940	1260	827	1150
13	1080	961	1010	1310	1270	1290	1030	980	1000	869	618	755
14	1120	1020	1080	---	---	---	1080	1040	1050	1010	866	954
15	1140	1100	1120	---	---	---	1100	1080	1090	1020	602	781
16	1140	1110	1120	---	---	---	1110	1080	1100	864	780	825
17	1110	682	1050	---	---	---	1140	1100	1120	951	874	916
18	846	517	721	---	---	---	1180	1130	1150	954	---	---
19	1010	845	924	---	---	---	1190	1160	1170	843	668	782
20	1060	1020	1040	---	---	---	1180	1160	1170	910	857	885
21	1120	1050	1080	---	---	---	1180	1140	1160	889	870	876
22	1170	1120	1140	---	---	---	1170	1120	1150	977	904	938
23	1170	1140	1150	---	---	---	1190	1150	1170	1010	970	994
24	1200	1140	1160	---	---	---	1190	1160	1180	992	807	906
25	1250	1100	1190	---	---	---	1200	1170	1180	1020	966	996
26	1210	1130	1190	---	---	---	1210	1160	1190	1050	1030	1040
27	1230	1210	1230	---	---	---	1210	1180	1190	1090	1080	1080
28	1250	1220	1230	---	---	---	1220	1120	1190	1100	1080	1090
29	1230	1160	1200	---	---	---	1210	919	1110	---	---	---
30	1220	1140	1190	---	---	---	1180	1110	1130	---	---	---
31	---	---	---	---	---	---	1170	1120	1150	---	---	---
MONTH	1250	517	1080	1330	856	1210	1220	910	1130	1260	602	1030
YEAR	1490	516	1180									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.5	14.5	16.0	7.5	4.5	6.5	0.5	0.0	0.5	0.0	0.0	0.0
2	18.5	15.5	17.0	9.0	6.5	8.0	0.5	0.0	0.0	0.0	0.0	0.0
3	19.5	16.5	17.5	8.0	6.0	6.5	0.5	0.0	0.5	0.0	0.0	0.0
4	19.0	17.0	18.0	6.5	5.0	5.5	0.5	0.0	0.5	0.0	0.0	0.0
5	18.5	14.5	16.5	6.0	3.5	4.5	0.5	0.0	0.0	0.0	0.0	0.0
6	14.0	12.5	13.5	6.0	3.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
7	13.0	11.0	12.0	5.0	2.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
8	12.0	9.5	11.0	2.5	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
9	12.0	10.5	11.5	5.5	2.5	3.5	0.5	0.0	0.0	0.0	0.0	0.0
10	13.0	9.5	11.5	4.5	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
11	14.0	11.0	13.0	3.0	1.0	2.0	0.0	0.0	0.0	---	---	---
12	16.5	13.5	15.0	2.0	0.5	1.0	0.5	0.0	0.0	---	---	---
13	16.0	13.5	15.0	1.5	0.5	0.5	0.0	0.0	0.0	---	---	---
14	14.5	11.5	13.0	1.0	0.5	0.5	0.5	0.0	0.0	---	---	---
15	14.0	11.5	13.0	1.5	0.5	0.5	0.5	0.0	0.0	---	---	---
16	11.0	9.5	10.5	2.0	0.5	1.0	0.5	0.0	0.0	---	---	---
17	10.5	8.0	9.0	3.0	1.0	2.0	0.5	0.0	0.0	---	---	---
18	8.5	7.0	7.5	4.5	1.5	3.0	0.5	0.0	0.0	---	---	---
19	8.5	8.0	8.5	5.5	4.0	4.5	0.5	0.0	0.0	---	---	---
20	9.0	7.5	8.0	5.0	3.0	4.0	0.0	0.0	0.0	---	---	---
21	9.0	6.5	7.5	3.5	2.0	3.0	0.0	0.0	0.0	---	---	---
22	8.0	5.0	6.5	2.0	0.5	1.5	0.0	0.0	0.0	---	---	---
23	8.0	6.5	7.0	1.5	0.0	0.5	0.0	0.0	0.0	---	---	---
24	9.0	8.0	8.5	2.0	0.5	1.0	0.0	0.0	0.0	---	---	---
25	10.0	8.5	9.0	5.0	1.0	2.5	0.0	0.0	0.0	---	---	---
26	8.5	7.0	8.0	7.5	5.0	6.5	0.0	0.0	0.0	---	---	---
27	8.5	6.0	7.0	6.5	1.5	4.0	0.5	0.0	0.0	---	---	---
28	7.0	4.0	5.5	1.0	0.0	0.5	0.0	0.0	0.0	---	---	---
29	7.0	4.5	6.0	0.5	0.0	0.5	0.0	0.0	0.0	---	---	---
30	7.5	6.5	6.5	0.5	0.0	0.5	0.0	0.0	0.0	---	---	---
31	9.0	7.0	7.5	---	---	---	0.0	0.0	0.0	---	---	---
MONTH	19.5	4.0	11.0	9.0	0.0	3.0	0.5	0.0	0.0	0.0	0.0	0.0

05570350 BIG CREEK AT ST. DAVID, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				---	---	---	11.5	7.0	9.0	16.0	14.0	15.0
2				---	---	---	15.5	11.0	13.0	18.5	15.5	17.0
3				---	---	---	14.5	10.0	12.5	19.0	16.0	17.5
4				---	---	---	12.0	8.5	11.0	19.5	15.5	17.5
5				---	---	---	8.5	6.5	7.5	21.5	14.5	17.5
6				---	---	---	11.0	5.0	8.0	17.5	12.0	15.5
7				---	---	---	14.5	8.5	11.0	19.5	16.5	18.0
8				---	---	---	15.0	10.5	12.5	19.0	16.5	17.5
9				---	---	---	16.5	11.0	13.5	17.0	15.0	16.0
10				---	---	---	19.5	13.0	16.0	17.0	14.0	15.5
11				---	---	---	21.0	15.0	18.0	18.0	14.5	16.0
12				---	---	---	22.0	16.0	19.0	20.0	15.0	17.5
13				---	---	---	21.0	17.0	19.0	21.5	17.0	19.0
14				---	---	---	21.5	16.5	19.0	22.5	18.0	20.0
15				---	---	---	22.5	17.0	20.0	23.5	19.5	21.5
16				10.5	6.5	8.5	23.5	17.5	20.5	25.0	20.5	22.5
17				8.5	6.0	7.0	23.5	17.5	21.0	24.0	21.5	22.5
18				6.0	5.5	6.0	22.0	17.5	20.0	25.5	20.5	23.0
19				6.0	4.5	5.5	21.0	18.5	20.0	26.5	21.0	24.0
20				8.0	4.0	5.5	22.5	18.5	20.5	24.5	21.0	23.0
21				7.0	4.5	6.0	19.5	18.0	19.0	24.0	20.5	22.0
22				8.0	2.5	5.0	17.5	15.5	16.5	25.5	20.5	23.0
23				10.5	5.5	7.5	16.0	14.0	15.0	24.0	19.5	22.0
24				10.0	6.0	8.0	17.5	13.0	15.5	26.0	20.5	23.0
25				12.5	6.5	9.5	16.0	12.0	14.5	27.0	21.0	24.0
26				14.5	8.5	11.5	17.5	11.0	14.5	27.5	21.5	25.0
27				13.5	12.0	13.0	19.5	13.5	17.0	26.5	21.0	24.0
28				13.5	12.0	12.5	18.5	14.5	16.0	26.0	21.5	23.5
29				14.5	11.0	13.0	16.5	11.5	14.5	26.0	21.0	23.5
30				15.0	12.0	13.5	15.5	12.0	14.0	27.0	21.5	24.5
31				11.0	8.0	9.5	---	---	---	26.5	22.5	24.5
MONTH				15.0	2.5	9.0	23.5	5.0	15.5	27.5	12.0	20.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.0	20.0	22.0	25.5	20.0	22.5	---	---	---	27.0	25.0	26.0
2	23.5	19.0	21.5	26.5	20.5	23.5	---	---	---	26.5	24.0	25.0
3	23.0	18.5	21.0	28.5	22.0	25.0	---	---	---	25.5	23.5	24.5
4	23.5	19.5	21.5	32.0	24.0	27.5	---	---	---	27.0	23.5	25.0
5	26.0	21.5	24.0	33.0	24.5	28.5	---	---	---	26.5	24.5	25.5
6	26.0	20.5	23.0	33.0	25.5	28.5	---	---	---	26.5	23.5	24.5
7	23.0	18.5	20.5	32.0	26.5	29.0	---	---	---	25.5	22.0	23.5
8	21.0	18.5	19.5	28.0	26.5	27.0	---	---	---	25.5	22.5	24.0
9	20.5	16.5	18.5	---	---	---	---	---	---	25.0	21.5	23.5
10	21.0	17.0	19.0	---	---	---	---	---	---	23.0	19.5	21.0
11	22.0	18.0	20.0	---	---	---	---	---	---	22.5	18.5	20.0
12	22.0	19.5	20.5	---	---	---	23.5	19.5	[illegible]	19.5	17.5	19.0
13	19.5	18.0	19.0	32.0	28.0	30.0	26.0	22.5	24.0	19.0	17.0	18.5
14	22.0	17.5	20.0	---	---	---	26.0	24.0	25.0	20.5	18.0	19.5
15	23.0	19.0	21.0	---	---	---	26.0	23.0	24.5	20.0	17.5	18.5
16	25.5	21.0	23.0	---	---	---	27.0	24.5	25.5	20.5	18.5	19.5
17	28.5	22.5	25.0	---	---	---	26.0	23.0	24.5	20.0	19.0	19.5
18	25.0	21.5	24.0	---	---	---	24.0	21.5	22.5	21.0	18.0	19.5
19	26.5	21.0	23.5	---	---	---	23.0	21.0	22.0	21.0	18.5	19.5
20	27.0	22.0	24.0	---	---	---	24.0	21.0	22.5	19.5	18.0	18.5
21	24.0	21.0	22.5	---	---	---	25.0	22.0	23.5	19.0	18.0	18.5
22	22.0	19.5	21.0	---	---	---	24.5	21.5	23.5	20.0	18.5	19.0
23	22.0	19.5	20.5	---	---	---	24.0	22.0	23.0	20.0	18.5	19.0
24	25.0	21.0	23.0	---	---	---	24.5	21.0	22.5	21.0	18.0	19.5
25	29.0	23.0	25.5	---	---	---	24.0	20.0	22.5	20.5	18.0	19.5
26	29.0	23.5	26.0	---	---	---	24.5	22.0	23.5	20.5	18.0	19.5
27	29.5	24.0	26.5	---	---	---	28.0	23.5	25.5	19.5	18.0	18.5
28	26.5	23.0	25.0	---	---	---	27.5	24.5	26.0	19.0	16.5	17.5
29	28.0	21.5	24.0	---	---	---	25.5	22.5	24.0	---	---	---
30	24.5	22.5	23.5	---	---	---	25.0	21.0	23.5	---	---	---
31	---	---	---	---	---	---	27.5	23.5	25.0	---	---	---
MONTH	29.5	16.5	22.5	33.0	20.0	27.0	28.0	19.5	23.5	27.0	16.5	21.0
YEAR	33.0	0.0	13.5									

05570350 BIG CREEK AT ST. DAVID, IL--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	110	1.3	103	1.9	25	0.30	29	0.27	16	0.11	41	0.41
2	115	3.1	102	1.7	24	0.26	27	0.26	15	0.11	40	0.37
3	120	4.9	100	1.8	23	0.25	27	0.26	16	0.11	41	0.68
4	146	7.5	98	1.5	23	0.25	25	0.24	16	0.11	40	0.58
5	200	16	96	1.4	22	0.24	24	0.23	16	0.11	38	0.43
6	165	8.5	94	1.4	22	0.24	22	0.21	16	0.11	37	0.35
7	100	1.6	92	1.2	22	0.24	23	0.22	16	0.11	36	0.35
8	95	1.2	90	1.5	21	0.24	22	0.21	16	0.11	36	0.45
9	91	1.3	80	1.2	23	0.31	23	0.22	16	0.11	40	0.84
10	92	1.3	70	0.94	22	0.25	22	0.21	16	0.11	55	2.4
11	93	1.6	67	0.98	22	0.24	22	0.21	18	0.17	282	60
12	94	2.1	60	0.81	22	0.24	22	0.21	60	2.4	1940	1470
13	95	1.9	50	0.68	22	0.24	22	0.21	55	1.8	419	74
14	93	1.9	40	0.54	25	0.27	21	0.20	35	0.76	330	36
15	92	1.9	40	0.56	25	0.27	21	0.20	33	0.45	210	18
16	91	1.8	29	0.44	25	0.27	21	0.20	37	0.40	150	9.7
17	90	2.7	28	0.47	23	0.25	22	0.21	38	0.36	49	2.8
18	87	3.5	28	0.47	23	0.25	23	0.22	36	0.34	45	2.9
19	88	4.5	29	0.47	23	0.25	21	0.20	37	0.35	47	2.4
20	88	4.5	30	0.45	23	0.25	21	0.20	39	0.37	48	3.0
21	90	3.9	29	0.42	24	0.26	23	0.22	40	0.54	45	2.7
22	93	1.7	28	0.39	25	0.27	22	0.21	60	2.4	43	2.2
23	94	1.5	28	0.38	25	0.27	19	0.18	250	40	42	1.6
24	94	2.0	28	0.38	26	0.28	19	0.18	125	15	41	1.4
25	97	2.2	28	0.39	26	0.28	17	0.16	87	5.9	40	1.3
26	97	2.5	29	0.39	27	0.29	17	0.16	70	1.9	40	1.2
27	100	3.2	29	0.47	27	0.28	18	0.17	40	0.72	43	1.4
28	100	2.7	28	0.60	28	0.29	18	0.16	39	0.45	200	24
29	100	4.6	27	0.44	28	0.28	17	0.14	---	---	140	21
30	110	6.2	25	0.34	29	0.28	18	0.14	---	---	65	6.1
31	104	2.8	---	---	31	0.29	17	0.12	---	---	36	2.6
TOTAL	---	106.4	---	24.61	---	8.18	---	6.23	---	75.41	---	1751.16
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	120	7.8	300	6.8	170	3.8	97	2.5	351	5.3	89	1.9
2	100	7.3	301	7.3	140	3.1	100	1.7	350	5.7	87	1.7
3	97	6.5	300	7.1	100	2.2	101	1.4	360	7.9	86	1.5
4	64	4.7	767	99	85	1.7	105	1.4	350	6.0	84	1.3
5	65	3.2	1140	287	75	1.6	129	1.8	350	5.9	83	1.3
6	70	2.8	2160	1600	60	1.3	109	1.5	2970	3120	81	1.3
7	67	2.7	1100	321	51	0.99	89	1.2	1200	532	80	1.2
8	63	2.4	550	74	75	1.8	70	0.98	1280	1080	78	1.4
9	61	2.3	253	25	100	2.2	60	1.1	420	161	79	1.2
10	60	2.1	250	19	136	3.6	50	0.73	410	89	81	1.0
11	63	2.0	247	16	125	3.4	49	0.71	390	59	80	0.89
12	54	1.7	245	15	73	1.7	50	0.73	350	43	79	1.1
13	79	2.6	275	17	72	1.5	49	0.73	290	23	100	7.6
14	104	3.1	275	18	70	1.6	49	0.73	230	9.3	80	2.8
15	119	3.5	270	17	70	1.3	50	0.76	170	5.0	300	21
16	110	3.3	270	16	67	1.1	100	3.0	165	5.3	250	19
17	100	2.7	260	13	66	1.5	100	2.7	160	5.6	300	22
18	88	2.4	200	10	300	17	51	0.80	150	4.9	1610	1430
19	95	2.9	99	4.8	150	3.7	60	0.94	155	5.0	650	139
20	134	5.1	99	4.8	130	2.6	60	0.83	145	4.7	120	13
21	139	6.0	200	11	129	2.3	288	4.6	137	4.4	120	12
22	125	4.7	150	5.7	127	2.2	290	4.5	123	3.3	115	11
23	120	3.9	150	4.5	125	2.3	300	4.2	110	2.7	115	9.6
24	110	3.3	150	4.5	120	1.9	305	4.2	100	2.3	110	12
25	73	2.0	100	2.4	121	2.1	304	4.3	75	1.7	107	8.4
26	100	2.6	100	2.6	125	2.0	305	4.5	56	1.4	107	8.4
27	150	3.5	296	8.8	123	1.8	307	4.6	60	1.6	105	8.5
28	200	5.0	296	8.0	122	1.9	308	4.7	65	1.8	105	9.6
29	283	7.0	266	6.9	90	1.5	307	4.6	100	3.2	104	11
30	290	6.8	235	6.0	95	1.8	309	4.5	92	2.0	105	11
31	---	---	200	4.9	---	---	400	11	90	1.9	---	---
TOTAL	---	115.8	---	2643.1	---	77.49	---	81.94	---	5203.9	---	1771.69

TOTAL LOAD FOR YEAR: 11865.91 TONS.

05570360 EVELYN BRANCH NEAR BRYANT, IL

LOCATION.--Lat 40°29'15", long 90°06'08", in NW¼SW¼ sec.19, T.6 N., R.4 E., Fulton County, Hydrologic Unit 07130005, on right bank 200 ft (61 m) upstream from dam, 1.4 mi (2.3 km) upstream from mouth and 1.5 mi (2.4 km) northwest of Bryant.

DRAINAGE AREA.--6.20 mi² (16.06 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 568.64 ft (173.321 m) above mean sea level.

REMARKS.--Water-discharge records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--5 years (water years 1973-77), 5.50 ft³/s (0.156 m³/s), 12.06 in/yr (306 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 109 ft³/s (3.09 m³/s) Apr. 6, 1973, gage height, 3.50 ft (1.067 m), maximum discharge affected by release of stored water about 0.5 mi (0.8 km) upstream; minimum daily, 0.15 ft³/s (0.004 m³/s) Feb. 1-9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 66 ft³/s (1.87 m³/s) Aug. 8, gage height, 2.60 ft (0.792 m); minimum daily, 0.15 ft³/s (0.004 m³/s) Feb. 1-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.9	1.2	.50	.15	2.2	4.3	1.8	1.1	.75	.63	5.5
2	1.4	1.9	1.2	.48	.15	1.9	5.5	1.9	.93	.61	.59	8.5
3	1.4	1.7	1.2	.46	.15	2.0	4.1	1.9	.80	.49	1.1	7.2
4	1.4	1.6	1.2	.44	.15	2.0	3.1	2.0	.70	.43	1.1	4.4
5	1.9	1.6	1.2	.42	.15	2.0	2.7	2.6	.69	.37	.92	3.4
6	2.3	1.6	1.2	.40	.15	1.9	2.4	30	.67	.31	9.6	2.9
7	2.1	1.5	1.2	.38	.15	1.8	2.4	27	.64	.26	20	2.6
8	1.8	1.5	1.4	.36	.15	1.7	2.3	21	.84	.23	37	2.4
9	1.7	1.5	1.2	.34	.15	1.6	2.2	16	.92	.20	49	3.0
10	1.6	1.7	1.1	.33	.17	1.6	2.2	13	1.3	.17	38	2.7
11	1.5	1.6	1.0	.32	.25	2.3	2.1	10	1.5	.17	25	2.0
12	1.5	1.5	.94	.31	.75	21	2.1	8.9	1.5	.25	20	2.0
13	1.5	1.5	.92	.30	1.4	12	2.1	7.8	1.2	.49	16	7.2
14	1.6	1.5	.90	.30	1.0	6.0	2.2	7.5	1.1	.55	14	6.6
15	1.4	1.5	.90	.30	.80	4.1	2.2	7.2	.99	.56	12	8.9
16	1.4	1.4	.90	.30	.60	3.0	2.1	6.9	.92	.80	12	9.6
17	1.3	1.5	.90	.30	.50	2.6	2.0	6.9	.98	1.1	10	7.5
18	1.3	2.3	.90	.30	.48	2.7	2.0	6.9	1.6	1.0	9.6	13
19	1.5	2.3	.90	.30	.47	2.7	2.1	6.6	1.6	.86	8.5	15
20	1.5	2.2	.90	.30	.47	2.7	2.2	6.0	1.5	.71	6.9	10
21	1.4	1.8	.88	.30	.47	2.6	2.4	5.5	1.3	.65	5.0	9.2
22	1.4	1.6	.84	.30	.74	2.5	2.4	5.0	1.0	.52	4.0	8.9
23	1.5	1.5	.82	.30	1.5	2.3	2.3	4.8	.94	.39	3.5	8.9
24	1.6	1.4	.78	.30	6.0	2.0	2.2	4.6	.87	.36	3.2	10
25	1.6	1.4	.74	.30	5.0	1.7	1.9	4.4	.79	.40	3.4	8.9
26	1.5	1.6	.70	.28	3.5	1.8	1.9	3.5	.68	.31	4.0	7.6
27	1.5	1.8	.66	.25	2.8	2.3	1.8	2.3	.57	.26	5.0	7.2
28	1.5	1.6	.62	.22	2.4	4.1	1.8	1.8	.62	.24	5.8	7.0
29	1.5	1.4	.58	.20	---	7.5	1.8	1.7	.54	.24	6.3	7.8
30	1.8	1.3	.56	.18	---	5.8	1.8	1.6	.65	.22	5.2	8.9
31	2.1	---	.54	.16	---	4.3	---	1.4	---	.64	4.6	---
TOTAL	48.8	49.1	28.98	9.93	30.65	114.7	72.6	228.5	29.44	14.54	341.94	208.8
MEAN	1.57	1.64	.93	.32	1.09	3.70	2.42	7.37	.98	.47	11.0	6.96
MAX	2.3	2.3	1.4	.50	6.0	21	5.5	30	1.6	1.1	49	15
MIN	1.3	1.3	.54	.16	.15	1.6	1.8	1.4	.54	.17	.59	2.0
CFSM	.25	.27	.15	.05	.18	.60	.39	1.19	.16	.08	1.77	1.12
IN.	.29	.29	.17	.06	.18	.69	.44	1.37	.18	.09	2.05	1.25

CAL YR 1976 TOTAL 1159.03 MEAN 3.17 MAX 21 MIN .54 CFSM .51 IN 6.95
WTR YR 1977 TOTAL 1177.98 MEAN 3.23 MAX 49 MIN .15 CFSM .52 IN 7.07

05570360 EVELYN BRANCH NEAR BRYANT, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February 1972 to current year.
WATER TEMPERATURES: February 1972 to current year.

INSTRUMENTATION.--Specific conductance and water temperature recorder since February 1972.

REMARKS.--Record missing June 15-30 due to monitor malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,920 micromhos Mar. 9, 1977; minimum, 965 micromhos Aug. 11, 1977.
WATER TEMPERATURES: Maximum, 32.5°C July 30, 1975; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,920 micromhos Mar. 9; minimum, 965 micromhos Aug. 11.
WATER TEMPERATURES: Maximum, 30.0°C Sept. 5, 6; minimum, 1.0°C Jan. 17, Feb. 6-9, 11, 12, 16-18.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM MATERIAL (MG/KG)
NOV											
03...	1200	1.7	2170	8.2	10.0	8.7	12.4	--	--	--	--
DEC											
02...	1100	1.2	2900	8.2	--	2.3	14.0	--	--	--	--
JAN											
06...	1530	.40	2470	8.0	--	2.0	13.8	--	--	--	--
FEB											
15...	1430	.80	1950	6.8	--	1.9	12.3	--	--	--	--
MAR											
09...	0960	1.6	2560	6.4	--	6.0	12.5	--	--	--	--
APR											
13...	1500	2.1	2100	7.7	26.0	16.7	11.2	--	--	--	--
MAY											
11...	1350	5.2	1820	7.1	--	20.2	9.9	--	--	--	--
JUN											
15...	1400	.92	1920	7.7	--	23.8	10.3	1.8	40	1400	310
JUL											
13...	1200	.31	2120	7.3	--	29.7	6.3	--	--	--	--
AUG											
12...	1105	20	1160	7.8	--	24.4	8.7	--	--	--	--
SEP											
08...	1240	2.7	1560	8.2	--	26.4	10.6	--	--	--	--

DATE	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV											
03...	--	--	--	--	--	--	--	--	--	--	7.8
DEC											
02...	--	--	--	--	--	--	--	--	--	--	14
JAN											
06...	--	--	--	--	--	--	--	--	--	--	15
FEB											
15...	--	--	--	--	--	--	--	--	--	--	9.9
MAR											
09...	--	--	--	--	--	--	--	--	--	--	--
APR											
13...	--	--	--	--	--	--	--	--	--	--	6.5
MAY											
11...	--	--	--	--	--	--	--	--	--	--	2.1
JUN											
15...	19	<10	<10	<10	<10	1000	<10	350	.0	20	7.1
JUL											
13...	--	--	--	--	--	--	--	--	--	--	5.2
AUG											
12...	--	--	--	--	--	--	--	--	--	--	5.1
SEP											
08...	--	--	--	--	--	--	--	--	--	--	7.8

05570360 EVELYN BRANCH NEAR BRYANT, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	PCB IN BOTTOM MATERIAL (UG/KG)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)
JUN 15...	0	.0	0	1.5	.0	.4	.0	1.2	.0	.0	.0

DATE	LINDANE IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)
JUN 15...	.0	.0	.0	.0	.0	0	.0	0	0	0

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2100	2090	2090	2170	2160	2170	2270	2250	2260	2440	2430	2430
2	2100	2090	2100	2180	2160	2170	2260	2250	2250	2450	2440	2450
3	2120	2090	2100	2180	2160	2160	2260	2240	2250	2460	2450	2460
4	2100	2080	2090	2170	2160	2170	2260	2240	2250	2480	2460	2470
5	2100	2070	2080	2180	2170	2170	2260	2250	2250	2470	2470	2470
6	2090	2070	2080	2170	2170	2170	2260	2250	2260	2480	2480	2490
7	2110	2100	2100	2180	2160	2170	2260	2250	2250	2490	2480	2480
8	2130	2110	2120	2180	2160	2170	2270	2250	2250	2510	2490	2500
9	2120	2110	2120	2190	2170	2180	2270	2250	2260	2520	2500	2520
10	2120	2120	2120	2170	2150	2170	2260	2250	2260	2530	2510	2520
11	2130	2120	2120	2180	2160	2170	2280	2260	2270	2560	2520	2540
12	2140	2130	2130	2180	2160	2170	2280	2270	2280	2570	2560	2560
13	2150	2130	2140	2180	2160	2170	2300	2280	2290	2580	2570	2570
14	2150	2140	2140	2180	2160	2170	2300	2290	2300	2590	2570	2580
15	2150	2150	2150	2180	2160	2170	2310	2300	2300	2590	2580	2580
16	2150	2150	2150	2180	2160	2170	2310	2300	2310	2600	2570	2590
17	2160	2150	2160	2190	2150	2180	2320	2310	2310	2610	2530	2620
18	2160	2150	2160	2230	2150	2190	2370	2310	2310	2630	2610	2630
19	2160	2150	2150	2200	2160	2190	2310	2280	2300	2640	2630	2640
20	2160	2160	2160	2210	2190	2200	2320	2300	2310	2660	2630	2640
21	2160	2160	2160	2220	2200	2210	2330	2320	2330	2660	2630	2650
22	2170	2160	2170	2220	2200	2210	2340	2330	2340	2670	2650	2660
23	2170	2160	2160	2230	2210	2220	2350	2330	2340	2680	2650	2670
24	2160	2150	2160	2230	2210	2210	2360	2340	2350	2690	2650	2670
25	2170	2160	2170	2250	2200	2230	2360	2350	2360	2690	2660	2670
26	2170	2150	2170	2240	2220	2230	2370	2360	2360	2690	2660	2680
27	2170	2160	2160	2230	2220	2230	2370	2340	2370	2700	2690	2700
28	2170	2170	2170	2240	2230	2230	2380	2350	2370	2700	2690	2700
29	2170	2160	2170	2250	2230	2240	2400	2370	2390	2710	2700	2710
30	2170	2160	2160	2260	2240	2250	2400	2400	2400	2710	2710	2710
31	2170	2160	2160	---	---	---	2430	2410	2410	2720	2700	2720
MONTH	2170	2070	2140	2260	2150	2190	2430	2240	2310	2720	2430	2590

05570360 EVELYN BRANCH NEAR BRYANT, IL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2720	2700	2720	1460	1450	1460	2170	2140	2150	2110	2070	2100
2	2730	2590	2700	1530	1480	1510	2160	2130	2150	2110	2040	2090
3	2620	2530	2580	1550	1470	1500	2130	2040	2090	2100	2080	2100
4	2610	2540	2570	1670	1480	1570	2120	2020	2070	2120	2040	2080
5	2610	2550	2580	1750	1680	1710	2150	2110	2130	2080	1920	2030
6	2620	2520	2590	1690	1660	1680	2150	2130	2140	1940	1740	1830
7	2630	2550	2610	1680	1640	1660	2130	2100	2120	1790	1710	1750
8	2600	2540	2570	2360	1660	1920	2120	2030	2090	1800	1780	1790
9	2580	2540	2560	2920	2340	2590	2130	1980	2070	1840	1800	1820
10	2590	2460	2540	2850	2170	2470	2150	2030	2100	1830	1810	1820
11	2480	2200	2400	2360	1970	2230	2120	2090	2110	1820	1820	1820
12	2210	2120	2160	2360	2000	2220	2140	2120	2130	1830	1760	1800
13	2150	2030	2110	2290	2170	2200	2130	2060	2120	1780	1760	1770
14	2030	2020	2020	2190	2080	2150	2140	2020	2100	1780	1730	1760
15	2030	1920	1980	2180	2130	2160	2130	2080	2110	1780	1740	1760
16	1930	1880	1900	2170	2160	2160	2130	2100	2120	1790	1750	1780
17	1890	1880	1890	2180	2150	2160	2120	2080	2100	1790	1630	1730
18	1890	1860	1880	2160	2130	2140	2120	1980	2080	1800	1700	1770
19	1880	1860	1880	2140	2120	2130	2130	2010	2070	1800	1670	1780
20	1870	1850	1860	2110	2080	2100	2120	2010	2070	1820	1780	1800
21	1890	1860	1880	2080	2070	2070	2110	1980	2030	1840	1820	1830
22	1880	1600	1760	2130	2070	2080	2100	1910	2010	1870	1840	1860
23	1740	1460	1610	2100	2080	2090	2120	2030	2080	1880	1840	1860
24	1720	1580	1660	2120	2070	2100	2110	2040	2090	1850	1830	1840
25	1650	1480	1580	2140	2080	2110	2120	2050	2090	1850	1810	1830
26	1500	1470	1490	2140	2070	2100	2130	2080	2110	1850	1810	1830
27	1490	1430	1450	2110	2030	2060	2140	2080	2100	1870	1810	1830
28	1440	1430	1430	2190	2020	2110	2120	2040	2080	1880	1790	1840
29	---	---	---	2160	2080	2140	2120	2100	2120	1880	1810	1850
30	---	---	---	2180	2080	2130	2110	2070	2100	1890	1750	1820
31	---	---	---	2180	2160	2170	---	---	---	1890	1710	1830
MONTH	2730	1430	2110	2920	1450	2030	2170	1910	2100	2120	1630	1850

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1920	1810	1880	1880	1860	1880	1940	1900	1920	1580	1540	1560
2	1920	1810	1870	1910	1850	1880	1920	1860	1910	1560	1520	1540
3	1910	1890	1900	1890	1880	1880	2010	1860	1920	1550	1520	1530
4	1910	1870	1890	1880	1880	1880	1910	1880	1910	1540	1520	1530
5	1910	1850	1880	1900	1880	1880	1900	1860	1900	1540	1500	1520
6	1910	1880	1890	1900	1890	1880	1830	1800	1820	1550	1490	1520
7	1930	1890	1900	1930	1780	1850	1800	1650	1720	1570	1520	1540
8	1900	1890	1890	1900	1750	1860	1650	1550	1620	1620	1530	1550
9	1930	1890	1910	1930	1880	1910	1540	1340	1420	1640	1550	1580
10	1910	1870	1900	1920	1850	1910	1300	1120	1220	1650	1590	1620
11	1920	1900	1910	1920	1850	1900	1090	965	1020	1650	1600	1620
12	1930	1910	1910	1920	1900	1920	1170	1090	1120	1620	1580	1600
13	1910	1910	1910	1940	1890	1920	1170	1110	1150	1630	1590	1610
14	1930	1910	1920	1940	1920	1930	1180	1150	1170	1650	1610	1630
15	---	---	---	1940	1910	1920	1170	1160	1160	1650	1600	1640
16	---	---	---	1940	1920	1920	1210	1180	1200	1660	1650	1660
17	---	---	---	1960	1910	1920	1270	1220	1250	1660	1660	1660
18	---	---	---	1930	1910	1910	1300	1260	1280	1670	1630	1650
19	---	---	---	1950	1900	1920	1310	1300	1300	1650	1630	1640
20	---	---	---	1950	1900	1940	1340	1310	1330	1670	1630	1650
21	---	---	---	1950	1920	1950	1390	1350	1370	1680	1590	1640
22	---	---	---	1940	1940	1940	1430	1400	1420	1660	1600	1630
23	---	---	---	1960	1920	1940	1450	1420	1440	1630	1600	1610
24	---	---	---	1940	1920	1930	1510	1450	1470	1610	1580	1600
25	---	---	---	1940	1940	1940	1500	1470	1490	1610	1570	1600
26	---	---	---	1940	1940	1940	1560	1480	1520	1620	1580	1600
27	---	---	---	1930	1910	1930	1560	1530	1540	1620	1570	1600
28	---	---	---	1930	1900	1930	1580	1540	1550	1620	1580	1610
29	---	---	---	1950	1920	1940	1560	1510	1540	1640	1600	1620
30	---	---	---	1950	1900	1940	1560	1510	1530	1640	1600	1610
31	---	---	---	1920	1870	1910	1580	1530	1560	---	---	---
MONTH	1930	1810	1900	1960	1750	1910	2010	965	1480	1680	1490	1600
YEAR	2920	965	2020									

05570360 EVELYN BRANCH NEAR BRYANT, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.5	17.5	18.0	9.0	8.0	8.5	3.0	3.0	3.0	2.5	2.0	2.0
2	20.5	18.0	19.0	10.5	8.0	9.0	3.0	3.0	3.0	2.0	2.0	2.0
3	21.5	18.5	20.0	9.0	8.0	8.5	3.0	2.5	3.0	2.0	2.0	2.0
4	20.0	18.5	19.0	8.5	7.5	8.0	3.0	3.0	3.0	2.0	2.0	2.0
5	19.0	17.5	18.5	8.0	7.0	7.5	3.0	2.5	3.0	2.0	2.0	2.0
6	18.0	16.5	17.0	8.5	7.0	7.5	3.0	2.5	3.0	2.0	2.0	2.0
7	17.0	16.0	16.5	7.5	6.5	7.0	3.0	2.5	2.5	2.0	2.0	2.0
8	17.5	15.5	16.0	6.5	6.0	6.5	3.0	2.5	2.5	2.0	2.0	2.0
9	16.5	15.0	15.5	6.5	6.0	6.5	3.0	2.5	3.0	2.5	2.0	2.0
10	15.5	14.5	15.0	6.5	6.0	6.0	3.0	3.0	3.0	2.0	2.0	2.0
11	15.5	14.5	15.0	6.5	5.5	6.0	3.0	2.5	3.0	2.0	2.0	2.0
12	16.0	14.5	15.0	6.0	5.0	5.0	3.5	3.0	3.0	2.0	2.0	2.0
13	17.0	15.0	16.0	5.5	4.5	5.0	3.0	2.5	3.0	2.0	1.5	2.0
14	15.5	15.0	15.0	5.0	4.0	4.5	3.0	2.5	3.0	2.0	2.0	2.0
15	16.0	14.5	15.0	5.0	4.0	4.5	3.5	2.5	3.0	2.0	1.5	2.0
16	14.5	14.0	14.5	5.0	4.0	4.5	3.5	3.0	3.0	2.0	1.5	1.5
17	14.5	13.5	14.0	4.5	4.0	4.5	3.5	3.0	3.0	2.0	1.0	1.5
18	13.5	13.0	13.0	5.0	4.0	4.5	3.5	3.0	3.0	2.0	1.5	2.0
19	13.0	12.0	12.5	5.0	4.5	4.5	3.5	3.0	3.0	2.0	1.5	2.0
20	12.5	11.5	12.0	5.5	4.5	5.0	3.0	2.5	3.0	2.0	2.0	2.0
21	12.0	11.0	11.5	4.5	4.0	4.5	3.0	2.5	3.0	2.0	2.0	2.0
22	11.5	10.5	11.0	4.0	3.5	4.0	3.0	2.5	2.5	2.0	1.5	2.0
23	10.5	10.0	10.0	4.5	3.0	3.5	3.0	2.5	3.0	2.0	2.0	2.0
24	10.5	10.0	10.0	4.5	3.0	3.5	3.0	2.5	2.5	2.0	2.0	2.0
25	10.5	10.0	10.0	5.0	3.5	4.0	3.0	2.5	2.5	2.0	2.0	2.0
26	10.5	9.5	10.0	5.0	5.0	5.0	3.0	2.5	3.0	2.0	2.0	2.0
27	10.5	9.0	9.5	5.0	3.5	4.5	3.0	2.5	3.0	2.0	2.0	2.0
28	9.5	8.5	9.0	3.5	2.5	3.0	3.5	2.5	3.0	2.0	2.0	2.0
29	9.0	8.5	9.0	3.5	2.5	3.0	3.0	2.5	2.5	2.0	1.5	2.0
30	9.0	8.5	8.5	3.5	2.5	3.0	2.5	2.5	2.5	2.0	2.0	2.0
31	10.0	8.5	9.0	---	---	---	2.5	2.0	2.0	2.0	1.5	2.0
MONTH	21.5	8.5	13.5	10.5	2.5	5.5	3.5	2.0	3.0	2.5	1.0	2.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.0	1.5	1.5	4.5	2.5	3.5	11.5	10.5	11.0	16.5	16.0	16.5
2	1.5	1.5	1.5	5.0	3.5	4.5	12.0	11.0	11.5	18.5	16.5	17.5
3	1.5	1.5	1.5	4.5	3.5	4.0	13.5	11.0	12.5	19.0	17.5	18.0
4	1.5	1.5	1.5	4.0	3.5	3.5	13.0	11.5	12.0	19.0	17.5	18.5
5	1.5	1.5	1.5	5.5	3.5	4.5	11.5	10.5	11.0	18.0	17.0	17.5
6	1.5	1.0	1.5	7.0	4.0	5.5	12.0	10.0	10.5	21.0	19.0	20.0
7	1.5	1.0	1.0	8.0	5.0	6.0	12.5	10.0	11.5	23.0	20.0	20.5
8	1.5	1.0	1.5	8.5	5.5	7.0	13.0	11.0	12.0	23.0	20.0	21.5
9	1.5	1.0	1.5	7.5	5.5	6.5	13.0	12.0	12.5	22.0	20.0	20.5
10	2.0	1.5	1.5	8.0	6.0	7.0	14.0	12.5	13.0	21.0	19.5	20.0
11	1.5	1.0	1.5	9.5	8.0	8.5	15.5	13.5	14.5	21.0	19.0	20.0
12	2.0	1.0	1.5	9.5	8.5	9.0	16.5	15.0	16.0	20.5	19.0	20.0
13	3.0	1.5	2.0	8.5	8.5	8.5	17.5	16.0	16.5	21.0	19.0	20.5
14	2.5	1.5	1.5	9.5	7.5	8.5	19.0	16.5	17.5	22.5	20.5	21.5
15	2.0	1.5	1.5	11.0	9.0	10.0	20.0	18.0	19.0	23.0	22.0	22.5
16	1.5	1.0	1.5	11.5	9.0	10.5	21.0	19.0	20.0	23.5	22.0	22.5
17	1.5	1.0	1.5	10.0	9.0	9.5	21.0	19.0	20.0	24.0	23.0	23.0
18	2.0	1.0	1.5	9.0	8.5	8.5	20.5	19.0	20.0	24.5	23.0	24.0
19	2.5	1.5	2.0	8.5	7.5	8.0	20.0	19.5	20.0	25.5	23.5	24.5
20	3.0	1.5	2.0	9.0	7.0	8.0	20.0	19.0	19.5	25.0	24.0	24.5
21	3.0	2.0	2.5	8.5	7.0	8.0	19.5	18.5	19.0	24.0	23.5	23.5
22	3.0	2.5	2.5	9.0	6.5	7.5	19.0	17.5	18.5	23.5	23.0	23.0
23	2.5	2.0	2.5	10.0	7.0	8.5	18.0	17.0	17.5	25.0	22.5	24.0
24	3.0	2.0	2.5	9.0	8.0	8.5	18.5	16.5	17.5	27.5	23.5	25.0
25	4.5	2.0	3.5	9.5	8.5	9.0	17.5	16.5	17.0	29.0	24.0	26.0
26	4.0	3.0	3.5	10.0	9.0	9.5	19.5	16.0	17.5	29.0	25.0	26.5
27	3.0	2.5	3.0	12.5	10.0	11.0	17.5	16.0	17.0	28.0	25.0	26.5
28	3.5	2.0	2.5	12.5	10.0	11.0	17.0	16.5	17.0	28.0	25.5	26.5
29	---	---	---	12.0	10.5	11.5	18.5	16.0	17.0	27.0	25.5	26.5
30	---	---	---	12.0	11.5	12.0	17.0	16.5	16.5	29.0	24.5	27.0
31	---	---	---	11.5	11.0	11.0	---	---	---	27.5	25.0	26.5
MONTH	4.5	1.0	2.0	12.5	2.5	8.0	21.0	10.0	16.0	29.0	16.0	22.5

05570360 EVELYN BRANCH NEAR BRYANT, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.0	24.5	25.0	24.5	21.0	23.0	25.0	22.5	23.5	27.0	26.0	26.5
2	26.5	23.5	25.0	24.0	21.5	23.0	23.5	22.0	22.5	27.5	25.5	26.5
3	26.0	23.5	24.5	24.0	23.0	23.5	24.0	21.0	22.5	28.0	25.5	27.0
4	25.5	23.5	24.5	26.0	23.5	24.5	22.0	21.5	22.0	28.5	26.0	26.5
5	26.5	24.0	25.0	27.0	24.5	25.5	22.0	21.0	21.5	30.0	26.0	28.0
6	25.5	24.0	25.0	28.0	26.0	26.5	21.5	19.5	20.5	30.0	26.5	28.0
7	27.0	23.0	24.5	29.0	26.0	27.0	21.5	20.0	20.5	29.0	25.5	27.5
8	23.5	22.0	23.0	27.5	26.0	27.0	21.0	19.5	20.5	27.5	25.5	26.5
9	24.5	21.0	22.5	28.5	25.0	26.5	18.5	16.5	18.0	26.5	24.5	25.5
10	22.5	21.0	22.0	27.5	25.0	26.0	21.0	18.0	19.0	27.0	24.0	25.0
11	24.0	21.0	22.0	26.0	25.0	25.5	21.0	18.0	19.5	24.0	23.5	23.5
12	23.5	22.0	23.0	26.5	25.0	25.5	25.0	24.0	24.5	23.5	22.5	23.0
13	22.0	21.5	21.5	27.5	25.5	26.5	26.0	24.5	25.0	22.5	22.0	22.5
14	24.0	20.5	22.0	27.5	26.5	27.0	28.5	25.5	26.5	23.5	22.0	22.5
15	---	---	---	29.0	26.5	27.5	27.0	25.5	26.5	22.0	21.5	21.5
16	---	---	---	27.5	27.0	27.0	27.5	25.5	26.0	22.0	21.0	21.5
17	---	---	---	27.5	25.5	26.5	28.5	25.5	27.0	21.5	21.0	21.5
18	---	---	---	26.5	26.0	26.5	28.0	25.0	26.5	22.0	21.0	21.5
19	---	---	---	27.0	25.5	26.0	26.0	24.5	25.5	22.0	21.0	21.5
20	---	---	---	27.5	26.0	26.5	26.5	24.5	25.0	21.5	20.5	21.0
21	---	---	---	28.0	26.0	27.0	26.5	24.0	25.0	21.5	20.5	21.0
22	---	---	---	27.0	26.0	26.5	27.0	24.0	25.5	21.0	20.5	20.5
23	---	---	---	26.5	24.5	25.5	25.5	24.5	25.0	21.5	20.5	20.5
24	---	---	---	26.0	24.5	25.0	27.5	24.5	25.5	21.0	20.0	20.5
25	---	---	---	26.5	25.0	25.0	25.5	24.5	25.0	21.0	20.0	20.5
26	---	---	---	26.0	23.0	24.5	25.0	24.0	24.5	21.5	20.5	21.0
27	---	---	---	24.5	22.5	24.0	26.0	24.5	25.0	22.0	21.0	21.5
28	---	---	---	24.0	22.0	23.0	26.0	25.0	25.5	22.5	20.5	21.0
29	---	---	---	26.5	22.0	24.0	29.0	24.5	26.5	21.5	20.5	20.5
30	---	---	---	25.0	23.5	24.0	26.5	25.0	25.5	21.0	20.5	20.5
31	---	---	---	25.0	22.5	23.5	26.5	25.0	26.0	---	---	---
MONTH	27.0	20.5	23.5	29.0	21.0	25.5	29.0	16.5	24.0	30.0	20.0	23.0
YEAR	30.0	1.0	13.5									

05570370 BIG CREEK NEAR BRYANT, IL

LOCATION.--Lat 40°27'32", long 90°08'00", in center of sec.35, T.6 N., R.3 E., Fulton County, Hydrologic Unit 07130005, on left bank at upstream side of culvert on county road, 2.0 mi (3.2 km) southwest of Bryant, 2.1 mi (3.4 km) downstream from Evelyn Branch, and 4.5 mi (7.2 km) northeast of Lewiston.

DRAINAGE AREA.--40.3 mi² (104.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1971 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 504.54 ft (153.784 m) above mean sea level (Metropolitan Sanitary District of Greater Chicago bench mark).

REMARKS.--Water-discharge records fair except those for winter periods and those for period of no gage-height record, Aug. 5-10, which are poor.

AVERAGE DISCHARGE.--5 years (water years 1973-77), 42.5 ft³/s (1.204 m³/s), 14.32 in/yr (364 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft³/s (34.6 m³/s) June 23, 1974, gage height, 12.90 ft (3.932 m); minimum daily, 3.0 ft³/s (0.085 m³/s) Feb. 1-10, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.5 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 12	0445	446	12.6	9.42	2.871	Aug. 8	Unknown	590	16.7	Unknown	
May 6	0930	469	13.3	9.56	2.914	Sept. 18	2245	474	13.4	9.59	2.923
Aug. 6	Unknown	*618	17.5	a*10.38	3.164						

a From peak-stage indicator.

Minimum daily discharge, 3.0 ft³/s (0.085 m³/s) Feb. 1-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	13	8.1	6.0	3.0	31	29	9.7	10	14	8.2	14
2	12	10	8.1	5.8	3.0	29	33	10	9.7	10	7.3	15
3	16	8.7	8.1	5.6	3.0	32	27	10	9.7	8.5	10	15
4	18	8.6	8.1	5.4	3.0	31	24	13	9.5	7.8	8.5	13
5	27	8.3	8.1	5.2	3.0	25	24	76	9.5	7.8	9.2	12
6	38	8.5	8.1	5.0	3.0	28	21	392	9.7	7.6	450	11
7	15	9.5	8.1	4.9	3.0	23	19	207	9.2	7.3	200	11
8	11	7.9	8.8	4.7	3.0	15	18	97	10	7.1	350	11
9	10	8.1	11	4.6	3.0	15	17	62	10	8.5	150	11
10	9.7	10	9.4	4.5	3.0	13	17	46	13	7.8	110	11
11	9.7	9.7	8.8	4.3	4.5	29	15	41	13	7.1	91	10
12	10	9.0	8.6	4.1	20	296	15	37	12	7.1	76	12
13	11	8.9	8.4	4.0	13	113	14	30	9.5	7.6	60	60
14	16	8.9	8.2	4.0	9.0	60	13	27	11	6.9	48	24
15	15	9.4	8.0	4.0	8.0	44	13	24	9.2	6.7	41	74
16	14	10	8.0	4.0	7.0	32	12	23	8.7	9.5	40	56
17	9.7	10	8.0	4.0	6.8	29	12	21	9.7	18	39	35
18	11	12	8.0	4.0	6.8	37	12	20	27	10	33	242
19	16	12	8.0	4.0	6.8	32	12	18	11	9.0	27	207
20	17	11	8.0	4.0	6.8	30	14	17	8.7	7.6	23	96
21	17	10	8.0	4.0	6.8	24	18	18	7.8	7.1	21	80
22	15	10	8.0	4.0	8.0	24	15	15	7.3	9.2	18	63
23	15	10	8.0	4.0	35	22	13	14	7.6	7.3	17	48
24	16	9.8	8.0	4.0	90	19	12	19	7.1	7.1	15	73
25	15	10	8.0	4.0	60	18	11	14	6.7	7.3	14	50
26	15	11	7.8	4.0	45	17	11	13	6.7	7.3	15	42
27	15	14	7.4	3.9	38	18	11	13	6.1	6.7	16	36
28	15	11	7.2	3.7	34	62	11	12	6.3	6.5	17	34
29	13	8.2	6.8	3.5	---	87	11	12	6.7	6.3	20	38
30	19	8.1	6.6	3.3	---	51	10	12	6.6	6.3	16	51
31	23	---	6.4	3.1	---	36	---	11	---	12	14	---
TOTAL	473.5	295.6	250.1	133.6	435.5	1322	484	1333.7	289.0	259.0	1964.2	1455
MEAN	15.3	9.85	8.07	4.31	15.6	42.6	16.1	43.0	9.63	8.35	63.4	48.5
MAX	38	14	11	6.0	90	296	33	392	27	18	450	242
MIN	9.4	7.9	6.4	3.1	3.0	13	10	9.7	6.1	6.3	7.3	10
CFSM	.38	.24	.20	.11	.39	1.06	.40	1.07	.24	.21	1.57	1.20
IN.	.44	.27	.23	.12	.40	1.22	.45	1.23	.27	.24	1.81	1.34

CAL YR 1976 TOTAL 10419.5 MEAN 28.5 MAX 344 MIN 4.6 CFSM .71 IN 9.62
WTR YR 1977 TOTAL 8695.2 MEAN 23.8 MAX 450 MIN 3.0 CFSM .59 IN 8.03

05570370 BIG CREEK NEAR BRYANT, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1972 to current year.
WATER TEMPERATURES: April 1972 to current year.
SUSPENDED-SEDIMENT DISCHARGE: December 1971 to current year.

INSTRUMENTATION.--Specific conductance and water temperature recorder since April 1972.

REMARKS.--Interruptions in daily conductance and temperature records were due to instrument malfunctions. Suspended sediment samples were collected by a local observer on an approximate twice weekly basis with additional samples collected during high runoff periods.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE April 1972 to water year 1976): Maximum, 2,540 micromhos Nov. 22, 1974; minimum, 400 micromhos July 27, 1976.
WATER TEMPERATURES (April 1972 to water year 1976): Maximum, 34.0°C July 18, 1974; minimum, 0.0°C on many days during winter periods.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 5,470 mg/L May 26, 1975; minimum daily mean, 3 mg/L Feb. 4, 1972.
SEDIMENT LOADS: Maximum daily, 6,090 tons (5,520 tonnes) May 26, 1975; minimum daily, 0.06 ton (0.05 tonne) Feb. 4, 1972.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,670 mg/L Mar. 12; minimum daily mean, 11 mg/L Jan. 6.
SEDIMENT LOADS: Maximum daily, 4,320 tons (3,920 tonnes) Mar. 12; minimum daily, 0.15 ton (0.14 tonne) Jan. 6, 10-12, 16-20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM MATERIAL (MG/KG)
NOV 03...	1345	9.1	1500	7.7	--	7.1	16.0	--	--	--	--
DEC 02...	1315	8.1	1800	7.5	--	.7	11.4	--	--	--	--
JAN 06...	1100	5.0	1730	7.1	--	.0	9.0	--	--	--	--
FEB 03...	1150	3.0	1680	7.1	--	.0	12.0	--	--	--	--
MAR 08...	1545	15	1250	6.6	25.0	1.5	11.4	--	--	--	--
APR 13...	1600	14	1380	7.6	25.0	20.0	17.2	--	--	--	--
MAY 11...	1350	35	1130	7.1	--	16.6	8.9	--	--	--	--
JUN 15...	1200	9.2	1280	7.3	--	19.7	3.8	2.3	8.7	970	700
JUL 13...	1410	7.6	1640	7.4	--	28.2	10.9	--	--	--	--
AUG 11...	1500	94	940	7.6	--	23.5	9.3	--	--	--	--
SEP 08...	1350	11	1620	7.6	--	23.1	10.6	--	--	--	--

05570370 BIG CREEK NEAR BRYANT, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 03...	--	--	--	--	--	--	--	--	--	--	9.3
DEC 02...	--	--	--	--	--	--	--	--	--	--	8.5
JAN 06...	--	--	--	--	--	--	--	--	--	--	7.9
FEB 03...	--	--	--	--	--	--	--	--	--	--	8.4
MAR 08...	--	--	--	--	--	--	--	--	--	--	4.4
APR 13...	--	--	--	--	--	--	--	--	--	--	6.1
MAY 11...	--	--	--	--	--	--	--	--	--	--	9.0
JUN 15...	13	<10	<10	<10	<10	2000	<10	620	.0	30	6.5
JUL 13...	--	--	--	--	--	--	--	--	--	--	5.4
AUG 11...	--	--	--	--	--	--	--	--	--	--	6.2
SEP 08...	--	--	--	--	--	--	--	--	--	--	5.8

DATE	PCB IN BOTTOM MA-TERIAL (UG/KG)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	DDD IN BOTTOM MA-TERIAL (UG/KG)	DDE IN BOTTOM MA-TERIAL (UG/KG)	DDT IN BOTTOM MA-TERIAL (UG/KG)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	ETHION IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)
JUN 15...	0	.0	10	1.9	.8	.0	.0	6.4	.0	.0	.4

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG)	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG)	2,4-D IN BOTTOM MA-TERIAL (UG/KG)	2,4,5-T IN BOTTOM MA-TERIAL (UG/KG)	SILVEX IN BOTTOM MA-TERIAL (UG/KG)
JUN 15...	.0	.0	.0	.0	.0	0	.0	0	0	0

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1630	1540	1580	1530	1410	1470	---	---	---			
2	1690	1580	1620	1790	1410	1520	---	---	---			
3	1650	1600	1630	1620	1480	1510	---	---	---			
4	1680	1640	1660	1770	1530	1580	---	---	---			
5	1680	1360	1580	1680	1510	1560	---	---	---			
6	1380	942	1110	1660	1530	1580	---	---	---			
7	1260	1060	1170	1590	1430	1540	---	---	---			
8	1370	1250	1310	1660	1460	1560	---	---	---			
9	1480	1300	1380	1650	1550	1590	---	---	---			
10	1470	1370	1420	1630	1580	1600	1690	1630	1670			
11	1510	1410	1450	1630	1580	1610	1730	1650	1690			
12	1530	1360	1440	---	---	---	1740	1670	1710			
13	1530	1410	1470	---	---	---	1880	1760	1840			
14	1430	1390	1410	---	---	---	1890	1770	1840			
15	1470	1400	1440	---	---	---	1790	1700	1750			
16	1510	1440	1480	---	---	---	1740	1630	1690			
17	1640	1510	1580	---	---	---	1680	1580	1630			
18	1650	1590	1620	---	---	---	1650	1560	1600			
19	1630	1530	1580	---	---	---	1630	1550	1570			
20	1560	1480	1540	---	---	---	1580	1510	1540			
21	1540	1450	1480	---	---	---	1670	1530	1630			
22	1510	1420	1470	---	---	---	1690	1650	1670			
23	1550	1450	1510	---	---	---	1690	1600	1660			
24	1550	1470	1500	---	---	---	1720	1670	1700			
25	1510	1450	1490	---	---	---	1710	1590	1660			
26	1550	1480	1510	---	---	---	1670	1590	1620			
27	1550	1480	1500	---	---	---	1670	1480	1540			
28	1560	1490	1520	---	---	---	1530	1480	1500			
29	1620	1520	1570	---	---	---	---	---	---			
30	1560	1450	1520	---	---	---	---	---	---			
31	1540	1380	1460	---	---	---	---	---	---			
MONTH	1690	942	1480	1790	1410	1560	1890	1480	1660			

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				---	---	---	1390	1320	1350	1470	1330	1420
2				---	---	---	1390	1310	1350	1450	1380	1430
3				---	---	---	1370	1290	1320	1480	1440	1460
4				---	---	---	1360	1280	1320	1490	1100	1410
5				---	---	---	1340	1270	1300	1220	681	940
6				---	---	---	1450	1280	1340	948	562	646
7				---	---	---	1380	1280	1330	1020	712	931
8				---	---	---	1360	1260	1320	1080	1030	1060
9				---	---	---	1420	1300	1340	1120	1090	1100
10				1500	1360	1430	1400	1310	1360	1160	1080	1120
11				1540	676	1360	1500	1300	1390	1230	1090	1150
12				1100	625	876	1460	1330	1380	1310	1170	1230
13				1260	1110	1180	1450	1360	1400	1350	1260	1300
14				1300	1220	1250	1400	1220	1340	1340	1250	1280
15				1310	1230	1260	1420	1320	1370	1420	1300	1340
16				1350	1260	1290	1450	1270	1390	1440	1310	1360
17				1350	1270	1320	1470	1280	1380	1450	1330	1360
18				1340	1290	1320	1430	1250	1370	1450	1340	1390
19				1380	1330	1360	1380	1260	1340	1450	1330	1370
20				1390	1330	1350	1360	1280	1320	1410	1340	1360
21				1370	1290	1350	1320	1140	1220	1380	1290	1330
22				1340	1290	1320	1250	1200	1230	1390	1290	1350
23				1530	1300	1370	1330	1230	1280	1440	1350	1390
24				1390	1310	1350	1350	1320	1340	1370	1160	1240
25				1390	1340	1360	1370	1360	1360	1340	1110	1220
26				1430	1300	1370	1410	1280	1370	1420	1290	1330
27				1420	1370	1390	1400	1350	1380	1320	1250	1290
28				1420	966	1230	1400	1250	1370	1280	1200	1230
29				1190	998	1090	1370	1160	1250	1360	1190	1260
30				1310	1190	1250	1450	1370	1400	1290	1200	1250
31				1350	1240	1300	---	---	---	1290	1190	1240
MONTH				1540	625	1290	1500	1140	1340	1490	562	1250

05570370 BIG CREEK NEAR BRYANT, IL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1370	1180	1230	1500	1340	1390	1480	1370	1420	---	---	---
2	1310	1180	1240	1400	1290	1360	1600	1370	1500	---	---	---
3	1370	1280	1310	1400	1260	1330	1630	1310	1440	---	---	---
4	1390	1280	1320	1490	1370	1440	1560	1410	1490	---	---	---
5	1360	1270	1300	1580	1480	1510	1670	1520	1570	---	---	---
6	1390	1280	1320	1660	1520	1570	---	---	---	---	---	---
7	1400	1270	1310	1660	1550	1590	---	---	---	---	---	---
8	1380	1250	1300	1650	1580	1610	---	---	---	1710	1620	1670
9	1400	1270	1340	1730	1540	1620	---	---	---	1670	1630	1640
10	1300	1090	1210	1620	1530	1580	---	---	---	1630	1600	1620
11	1340	1250	1270	1650	1520	1560	---	---	---	1650	1610	1630
12	1290	1120	1230	1660	1550	1590	---	---	---	1660	1100	1570
13	1350	1220	1280	1690	1550	1620	---	---	---	1270	1040	1150
14	1340	1180	1270	1750	1610	1660	---	---	---	1450	1150	1280
15	1420	1220	1310	1740	1610	1650	---	---	---	1430	907	1110
16	1440	1320	1380	1740	1630	1680	---	---	---	1220	1040	1160
17	1430	1310	1350	1540	1050	1280	---	---	---	1280	1200	1230
18	1330	654	922	1300	1020	1140	---	---	---	1280	592	1020
19	1260	891	1110	1380	1310	1340	---	---	---	1260	806	973
20	1370	1230	1300	1460	1330	1380	---	---	---	1090	1010	1060
21	1400	1340	1370	1600	1480	1540	---	---	---	1090	1040	1060
22	1400	1340	1380	1540	1430	1480	---	---	---	1180	1050	1100
23	1440	1370	1400	1460	1370	1410	---	---	---	1220	1160	1190
24	1480	1410	1430	1600	1420	1550	---	---	---	1180	1010	1090
25	1500	1400	1460	1650	1560	1590	---	---	---	1150	1070	1120
26	1520	1460	1490	1650	1540	1590	---	---	---	1190	1150	1190
27	1520	1460	1490	1640	1560	1590	---	---	---	1220	1190	1200
28	1580	1470	1510	1730	1560	1610	---	---	---	1260	1210	1220
29	1560	1450	1500	1680	1580	1620	---	---	---	1330	1270	1310
30	1550	1450	1500	1670	1580	1620	---	---	---	1320	950	1250
31	---	---	---	1720	1310	1470	---	---	---	---	---	---
MONTH	1580	654	1330	1750	1020	1520	1670	1310	1480	1710	592	1250
YEAR	1890	562	1400									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	12.5	14.5	7.5	4.5	6.0	---	---	---			
2	17.5	13.5	15.5	9.0	5.0	7.0	---	---	---			
3	18.0	14.5	16.0	7.5	5.0	6.0	---	---	---			
4	18.0	15.0	16.5	6.0	4.0	5.0	---	---	---			
5	17.5	13.5	15.5	5.5	3.0	4.0	---	---	---			
6	13.5	12.0	13.0	6.0	2.5	4.5	---	---	---			
7	12.5	10.5	11.5	4.5	2.0	3.5	---	---	---			
8	11.5	9.0	10.0	2.5	1.0	2.0	---	---	---			
9	11.5	9.5	10.5	5.5	2.0	3.5	0.5	---	---			
10	12.5	8.5	10.5	4.5	2.5	3.5	0.5	0.0	0.5			
11	13.5	9.5	11.5	3.0	0.5	2.0	0.5	0.0	0.5			
12	16.0	11.5	13.5	---	---	---	0.5	0.0	0.5			
13	15.0	12.0	13.5	---	---	---	0.5	0.0	0.5			
14	13.5	10.0	12.0	---	---	---	0.5	0.5	0.5			
15	13.5	10.5	12.0	---	---	---	0.5	0.0	0.5			
16	10.0	8.5	9.5	---	---	---	0.5	0.0	0.5			
17	9.5	7.0	8.0	---	---	---	0.5	0.0	0.5			
18	8.0	5.0	6.5	---	---	---	0.5	0.0	0.5			
19	8.0	7.0	7.5	---	---	---	0.5	0.0	0.5			
20	8.5	7.0	7.5	---	---	---	0.5	0.0	0.0			
21	8.0	5.5	6.5	---	---	---	0.5	0.0	0.0			
22	7.0	3.5	5.0	---	---	---	0.5	0.0	0.5			
23	7.0	4.5	6.0	---	---	---	0.0	0.0	0.0			
24	8.5	7.0	8.0	---	---	---	0.5	0.0	0.0			
25	9.5	7.5	8.5	---	---	---	0.0	0.0	0.0			
26	8.0	6.0	7.0	---	---	---	0.5	0.0	0.0			
27	7.5	4.5	6.0	---	---	---	0.5	0.0	0.0			
28	6.5	3.0	4.5	---	---	---	0.0	0.0	0.0			
29	6.5	2.5	4.5	---	---	---	0.0	0.0	0.0			
30	6.0	5.5	6.0	---	---	---	---	---	---			
31	8.5	5.5	7.0	---	---	---	---	---	---			
MONTH	18.0	2.5	10.0	9.0	0.5	4.5	0.5	0.0	0.5			

05570370 BIG CREEK NEAR BRYANT, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				---	---	---	11.5	7.0	9.0	16.0	13.5	15.0
2				---	---	---	15.0	10.5	12.5	18.5	16.0	17.0
3				---	---	---	14.5	10.0	12.0	19.5	16.0	18.0
4				---	---	---	12.0	8.0	10.5	20.5	17.5	18.5
5				---	---	---	8.0	6.5	7.0	21.0	18.0	19.0
6				---	---	---	10.5	5.0	7.5	20.0	17.5	18.5
7				---	---	---	14.0	7.0	10.5	19.5	18.0	19.0
8				---	---	---	14.5	9.0	12.0	19.0	17.5	18.5
9				4.5	0.5	2.0	16.5	10.0	13.0	18.0	15.5	17.0
10				7.0	2.0	4.5	19.0	12.5	15.5	17.5	14.0	16.0
11				9.5	6.5	7.5	20.5	14.0	17.0	18.5	15.0	16.5
12				9.5	7.5	8.5	21.5	15.5	18.0	20.0	15.5	17.5
13				7.5	7.0	7.5	20.0	16.5	18.0	21.0	16.5	19.0
14				10.5	6.0	8.5	20.5	16.0	18.5	22.0	18.0	20.0
15				11.0	8.5	10.0	22.5	17.0	19.5	23.0	19.5	21.0
16				11.0	7.0	8.5	23.0	17.5	20.0	24.0	20.5	22.0
17				8.0	6.5	7.0	23.0	17.5	20.5	23.5	21.0	22.5
18				6.5	6.0	6.5	21.5	17.5	19.5	24.5	20.5	22.5
19				6.5	5.5	6.0	20.5	18.5	19.5	25.5	21.0	23.0
20				8.0	4.5	6.0	22.0	18.5	20.0	24.0	21.0	22.5
21				7.0	4.0	6.0	19.5	18.0	19.0	23.5	20.5	22.0
22				7.5	3.0	5.5	18.0	15.0	16.5	24.0	21.0	22.5
23				10.0	5.0	7.0	16.0	14.0	15.0	23.5	19.5	22.0
24				10.0	5.0	7.5	17.5	13.5	15.0	24.0	20.5	22.5
25				12.0	6.0	9.0	15.5	12.0	14.0	25.0	20.5	23.0
26				14.5	8.0	11.0	16.5	10.5	14.0	26.0	21.5	23.5
27				13.0	12.0	12.5	19.5	13.0	16.5	25.0	20.5	23.0
28				13.0	12.0	12.5	17.5	13.5	16.0	25.5	21.0	23.0
29				14.0	11.5	13.0	16.0	10.5	13.5	24.0	20.5	22.5
30				15.0	11.0	13.0	15.0	12.0	13.5	25.5	20.5	23.0
31				10.5	8.0	9.5	---	---	---	26.0	21.5	23.0
MONTH				15.0	0.5	8.0	23.0	5.0	15.0	26.0	13.5	20.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.0	19.0	21.0	25.0	20.0	22.0	26.0	21.0	23.0	25.5	24.0	25.0
2	22.5	18.0	20.0	25.5	19.5	22.5	23.5	21.0	22.0	26.0	23.5	24.5
3	22.0	17.5	19.5	26.5	22.0	24.0	25.5	20.0	22.5	25.0	22.5	24.0
4	22.5	18.5	20.5	29.5	24.0	26.5	23.5	22.0	22.5	25.5	23.0	24.0
5	25.0	20.5	23.0	30.0	24.5	27.0	23.5	21.5	22.5	25.5	23.5	24.5
6	24.0	19.5	22.0	31.5	25.0	27.5	23.0	22.0	22.5	25.5	22.0	23.5
7	21.5	17.5	19.5	30.5	26.0	28.0	24.5	22.0	23.5	24.5	20.5	22.5
8	19.5	18.0	18.5	27.5	25.0	26.0	24.5	22.0	23.0	24.5	21.0	22.5
9	19.5	15.5	17.5	27.5	23.0	25.0	24.0	22.0	23.0	23.5	20.5	22.0
10	19.5	15.5	18.0	27.0	21.5	24.0	26.0	23.5	24.5	21.0	18.0	19.5
11	21.5	18.5	19.5	26.0	24.0	25.0	25.5	22.0	24.5	20.5	17.0	18.5
12	21.0	19.5	20.5	29.0	24.5	26.0	23.0	20.5	21.5	19.0	18.0	18.5
13	19.0	18.0	18.5	30.5	25.0	27.5	25.5	22.0	23.5	19.5	18.5	19.0
14	21.0	17.5	19.0	32.0	26.0	28.5	26.0	23.5	24.5	20.0	18.5	19.0
15	23.0	18.0	20.5	31.5	26.5	28.5	26.0	23.0	24.5	19.0	17.5	18.5
16	24.0	19.5	21.5	28.0	26.0	26.5	26.0	24.5	25.0	20.0	19.0	19.5
17	26.5	21.5	24.0	29.0	24.5	26.5	25.0	22.5	24.0	20.0	19.5	19.5
18	24.5	22.5	23.5	28.0	25.5	26.5	23.0	21.0	22.0	20.5	19.5	20.0
19	25.5	20.5	23.0	30.5	24.5	27.0	22.0	20.5	21.5	20.5	19.0	20.0
20	25.5	21.0	23.0	29.5	25.5	27.5	23.5	20.5	22.0	19.0	18.0	18.5
21	24.0	20.0	22.0	28.5	25.0	26.5	23.5	21.0	22.5	19.0	18.0	18.5
22	21.5	19.5	20.5	28.0	23.5	25.5	23.5	21.0	22.0	19.5	18.5	19.0
23	21.5	19.5	20.5	27.0	21.5	24.0	23.0	21.5	22.0	20.0	18.5	19.0
24	24.0	20.0	22.0	26.0	23.5	25.0	23.0	20.5	21.5	20.5	19.5	20.0
25	28.0	22.0	24.5	27.5	24.5	25.5	22.5	19.5	21.0	20.0	18.5	19.5
26	28.0	22.0	24.5	25.5	21.0	23.0	23.5	21.5	22.5	20.0	18.5	19.0
27	27.5	23.0	25.0	25.0	19.0	21.5	27.0	23.0	24.5	19.0	18.0	18.5
28	25.5	23.0	24.0	24.5	19.5	21.5	25.5	23.5	25.0	18.5	17.0	17.5
29	26.0	20.5	23.0	26.5	22.0	24.0	24.5	22.0	23.0	19.0	17.0	18.0
30	24.0	22.0	22.5	28.0	23.0	25.0	24.0	21.0	22.5	18.5	18.0	18.5
31	---	---	---	26.5	23.0	24.5	26.0	22.5	24.0	---	---	---
MONTH	28.0	15.5	21.5	32.0	19.0	25.5	27.0	19.5	23.0	26.0	17.0	20.5
YEAR	32.0	0.0	16.5									

05570370 BIG CREEK NEAR BRYANT, IL--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	52	1.3	230	8.1	23	0.50	20	0.32	20	0.16	69	5.8
2	55	1.8	233	6.3	23	0.50	19	0.30	20	0.16	68	5.3
3	60	2.6	237	5.6	22	0.48	17	0.26	22	0.18	66	5.7
4	60	2.9	200	4.6	22	0.48	16	0.23	22	0.18	66	5.5
5	140	10	180	4.0	22	0.48	15	0.21	21	0.17	67	4.5
6	300	31	160	3.7	23	0.50	11	0.15	20	0.16	70	5.3
7	250	10	140	3.6	23	0.50	12	0.16	21	0.17	68	4.2
8	247	7.3	120	2.6	22	0.52	14	0.18	21	0.17	55	2.2
9	240	6.5	115	2.5	26	0.77	13	0.16	21	0.17	54	2.2
10	240	6.3	95	2.6	25	0.63	12	0.15	22	0.18	53	1.9
11	241	6.3	89	2.3	24	0.57	13	0.15	30	0.36	704	256
12	239	6.5	77	1.9	23	0.53	14	0.15	100	5.4	4670	4320
13	238	7.1	65	1.6	23	0.52	15	0.16	75	2.6	800	244
14	237	10	58	1.4	23	0.51	15	0.16	47	1.1	550	89
15	236	9.6	47	1.2	22	0.48	15	0.16	45	0.97	300	36
16	235	8.9	25	0.68	22	0.48	14	0.15	46	0.87	150	13
17	235	6.2	26	0.70	21	0.45	14	0.15	47	0.86	78	6.1
18	237	7.0	23	0.75	20	0.43	14	0.15	47	0.86	75	7.5
19	239	10	22	0.71	20	0.43	14	0.15	46	0.84	73	6.3
20	235	11	21	0.62	21	0.45	14	0.15	46	0.84	70	5.7
21	234	11	21	0.57	20	0.43	16	0.17	45	0.83	70	4.5
22	233	9.4	22	0.59	20	0.43	16	0.17	80	1.7	68	4.4
23	235	9.5	22	0.59	19	0.41	16	0.17	175	17	66	3.9
24	236	10	21	0.56	21	0.45	17	0.18	400	97	66	3.4
25	236	9.6	22	0.59	20	0.43	17	0.18	200	32	67	3.3
26	235	9.5	22	0.65	21	0.44	18	0.19	80	9.7	66	3.0
27	235	9.5	23	0.87	21	0.42	18	0.19	65	6.7	63	3.1
28	230	9.3	23	0.68	20	0.39	18	0.18	69	6.3	2320	698
29	230	8.1	25	0.55	20	0.37	19	0.18	---	---	3250	763
30	230	12	24	0.52	19	0.34	19	0.17	---	---	1400	193
31	227	14	---	---	21	0.36	19	0.16	---	---	60	5.8
TOTAL	---	274.2	---	61.63	---	14.68	---	5.59	---	187.63	---	6711.6
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	58	4.5	58	1.5	480	13	100	3.8	53	1.2	27	1.0
2	56	5.0	60	1.6	470	12	75	2.0	53	1.0	28	1.1
3	55	4.0	65	1.8	475	12	48	1.1	150	4.1	26	1.1
4	54	3.5	69	2.4	470	12	50	1.1	60	1.4	27	0.95
5	52	3.4	1880	576	475	12	51	1.1	60	1.5	26	0.84
6	52	2.9	2240	2210	480	13	50	1.0	4060	3610	27	0.80
7	50	2.6	1400	782	480	12	48	0.95	2300	1240	27	0.80
8	47	2.3	800	210	500	13	49	0.94	3120	2700	26	0.77
9	45	2.1	350	59	500	13	48	1.1	2300	931	25	0.74
10	43	2.0	212	26	562	20	47	0.99	500	148	26	0.77
11	42	1.7	200	22	540	19	49	0.94	80	20	25	0.68
12	40	1.6	213	21	500	16	47	0.90	75	15	26	0.84
13	35	1.3	226	18	59	1.5	48	0.98	70	11	150	24
14	37	1.3	210	15	75	2.2	47	0.88	65	8.4	50	3.2
15	39	1.4	215	14	59	1.5	47	0.85	57	6.3	100	20
16	41	1.3	220	14	60	1.4	47	1.2	40	4.3	100	15
17	43	1.4	210	12	61	1.6	100	4.9	35	3.7	75	7.1
18	45	1.5	215	12	517	60	75	2.0	29	2.6	4340	3540
19	50	1.6	210	10	75	2.2	50	1.2	31	2.3	1890	1060
20	52	2.0	215	9.9	30	0.70	51	1.0	30	1.9	400	104
21	110	5.3	220	11	27	0.57	52	1.0	29	1.6	100	22
22	105	4.3	220	8.9	26	0.51	53	1.3	28	1.4	80	14
23	70	2.5	220	8.3	25	0.51	54	1.1	27	1.2	75	9.7
24	67	2.2	453	23	24	0.46	55	1.1	25	1.0	72	14
25	66	2.0	460	17	25	0.45	51	1.0	23	0.87	71	9.6
26	60	1.8	463	16	25	0.45	50	0.99	25	1.0	70	7.9
27	59	1.8	467	16	24	0.40	52	0.94	27	1.2	67	6.5
28	58	1.7	468	15	23	0.39	53	0.93	28	1.3	66	6.1
29	57	1.7	470	15	22	0.40	53	0.90	29	1.6	63	6.5
30	55	1.5	475	15	21	0.37	53	0.90	28	1.2	67	9.2
31	---	---	480	14	---	---	150	4.9	27	1.0	---	---
TOTAL	---	72.2	---	4177.4	---	242.61	---	43.99	---	8727.07	---	4889.19

TOTAL LOAD FOR YEAR: 25407.79 TONS.

05570380 SLUG RUN NEAR BRYANT, IL

LOCATION.--Lat 40°28'24", long 90°08'37", in SE¼NE¼ sec.27, T.6 N., R.3 E., Fulton County, Hydrologic Unit 07130005, on left bank at upstream side of concrete ford on private road, 1.3 mi (2.1 km) upstream from mouth and 2.5 mi (4.0 km) northwest of Bryant.

DRAINAGE AREA.--7.9 mi^2 (20.5 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 523.25 ft (159.487 m) above mean sea level (Metropolitan Sanitary District of Greater Chicago bench mark).

REMARKS.--Water-discharge records fair except those for winter periods, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 218 ft^3/s (6.17 m^3/s) May 6, 1977, gage height, 5.93 ft (1.807 m); minimum daily, 0.22 ft^3/s (0.006 m^3/s) Feb. 1-10, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 218 ft^3/s (6.17 m^3/s) May 6, gage height, 5.93 ft (1.807 m); minimum daily, 0.22 ft^3/s (0.006 m^3/s) Feb. 1-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	.81	.50	.41	.22	1.5	2.2	.54	.89	.68	.32	1.2
2	.66	.73	.50	.40	.22	1.4	2.1	.54	.76	.52	.44	1.0
3	.71	.65	.50	.39	.22	1.7	1.7	.54	.62	.34	.46	.91
4	.74	.54	.50	.38	.22	1.6	1.7	1.8	.62	.33	.45	.79
5	1.6	.54	.50	.38	.22	1.3	1.8	18	.62	.29	.61	.72
6	1.5	.55	.50	.37	.22	1.5	1.6	60	.59	.27	19	.64
7	1.2	.53	.60	.37	.22	1.2	1.3	19	.57	.24	27	.64
8	1.0	.52	.74	.37	.22	1.0	.90	11	.66	.29	34	.64
9	.89	.54	.62	.37	.22	1.2	.89	8.1	.54	.28	23	.58
10	.89	.54	.58	.37	.22	1.2	.84	5.7	1.3	.27	25	.54
11	.84	.50	.54	.37	.30	8.1	.82	4.6	.82	.25	14	.53
12	.76	.51	.52	.37	1.5	24	.88	3.7	.66	.26	9.9	1.5
13	.74	.51	.51	.37	.70	9.3	.95	2.2	.64	.26	6.4	5.3
14	.64	.47	.50	.37	.60	5.8	1.2	2.5	.59	.23	4.4	4.0
15	.64	.45	.50	.37	.50	3.9	1.2	2.3	.50	.24	3.5	7.7
16	.65	.45	.50	.37	.45	2.9	1.4	2.4	1.3	.36	3.1	6.2
17	.63	.45	.50	.37	.43	2.3	1.6	3.3	1.1	.34	2.7	5.2
18	.56	.46	.50	.37	.41	2.3	1.7	2.4	.64	.30	2.7	9.2
19	.64	.51	.50	.37	.40	2.0	1.7	2.2	.41	.32	3.9	7.9
20	.63	.45	.50	.37	.40	3.6	2.0	2.1	.37	.28	5.4	6.2
21	.56	.44	.50	.37	.40	4.8	2.1	2.0	.35	.28	4.4	5.4
22	.54	.40	.50	.37	.40	3.8	2.1	1.6	.39	.26	3.5	4.7
23	.58	2.2	.50	.36	.50	2.5	1.6	1.2	.38	.24	3.5	4.3
24	.58	1.4	.50	.36	5.0	1.8	1.2	1.0	.38	.32	3.9	6.2
25	.54	.55	.50	.36	4.0	1.7	.89	1.2	.37	.30	2.7	4.4
26	.57	.68	.50	.35	2.2	2.0	.76	1.2	.34	.28	3.5	3.7
27	.54	.74	.48	.32	1.8	1.8	.64	1.2	.30	.25	2.4	3.2
28	.55	.56	.46	.29	1.6	7.9	.54	1.2	.34	.26	2.1	3.1
29	.57	.52	.45	.27	---	6.6	.54	1.0	.34	.26	2.1	3.3
30	.80	.50	.43	.26	---	4.0	.54	1.0	.48	.25	1.6	6.0
31	.79	---	.42	.23	---	2.9	---	1.2	---	.71	1.2	---
TOTAL	23.19	18.70	15.85	11.05	23.79	117.6	39.39	166.72	17.87	9.76	217.18	105.69
MEAN	.75	.62	.51	.36	.85	3.79	1.31	5.38	.60	.31	7.01	3.52
MAX	1.6	2.2	.74	.41	5.0	24	2.2	60	1.3	.71	34	9.2
MIN	.54	.40	.42	.23	.22	1.0	.54	.54	.30	.23	.32	.53
CFSM	.10	.08	.07	.05	.11	.48	.17	.68	.08	.04	.89	.45
IN.	.11	.09	.07	.05	.11	.55	.19	.78	.08	.05	1.02	.50

CAL YR 1976 TOTAL 1456.63 MEAN 3.98 MAX 55 MIN .28 CFSM .50 IN 6.86
WTR YR 1977 TOTAL 766.79 MEAN 2.10 MAX 60 MIN .22 CFSM .27 IN 3.61

05570380 , SLUG RUN NEAR BRYANT, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1975 to current year.
WATER TEMPERATURES: July 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1975 to current year.

INSTRUMENTATION.--Specific conductance and water temperature recorder since July 1975.

REMARKS.--Suspended sediment samples were collected by a local observer on an approximate twice weekly basis with additional samples collected during high runoff periods.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,640 micromhos Jan. 6, 1977; minimum, 488 micromhos July 23, 1975.
WATER TEMPERATURES: Maximum, 35.0°C July 15, 1977; minimum, 0.0°C on many days during winter periods.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,150 mg/L Mar. 4, 1976; minimum daily mean, 5 mg/L Apr. 15, 1976.
SEDIMENT LOADS: Maximum daily, 181 tons (164 tonnes) May 6, 1977; minimum daily, 0.05 ton (0.04 tonne) Oct. 3, 1975, Sept. 12-17, 1976.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,640 micromhos Jan. 6; minimum, 744 micromhos May 5.
WATER TEMPERATURES: Maximum, 35.0°C July 15; minimum, 0.0°C on days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,010 mg/L May 6; minimum daily mean, 47 mg/L Oct. 21, 22, 29.
SEDIMENT LOADS: Maximum daily, 181 tons (164 tonnes) May 6; minimum daily, 0.07 ton (0.06 tonne) Oct. 21, 22, 25-29, Jan. 31, Feb. 1-10.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
NOV 03...	1545	.68	2060	7.5	10.5	8.0	4	12.5	1200	910
DEC 02...	1200	.50	2300	7.6	--	.1	4	11.6	1300	960
JAN 06...	0900	.37	2600	7.3	--	.1	8	11.5	1500	1200
FEB 03...	1100	.22	2250	7.5	--	.0	3	12.4	1300	960
MAR 08...	1330	1.0	1640	6.3	--	11.1	3	12.8	840	630
APR 13...	1745	.82	2000	7.4	24.5	20.1	3	9.2	1200	910
MAY 11...	1130	4.9	1650	7.3	--	19.2	35	9.4	920	700
JUN 15...	1130	.45	2290	7.4	--	19.9	3	8.5	1100	1000
JUL 11...	1300	.24	2450	8.1	--	27.0	--	--	--	--
13...	1500	.24	2250	7.4	--	30.3	3	9.4	1300	1100
AUG 11...	1300	13	1380	7.2	26.5	24.1	1	8.6	740	580
SEP 08...	1430	.64	2280	7.6	--	26.9	30	9.1	1200	920

05570380 SLUG RUN NEAR BRYANT, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
NOV										
03...	220	160	76	12	1.0	7.9	350	0	280	18
DEC										
02...	250	170	81	12	1.0	7.5	410	0	340	16
JAN										
06...	290	200	44	6	.5	8.2	410	0	340	33
FEB										
03...	230	170	76	11	.9	6.9	420	0	340	21
MAR										
08...	170	100	54	12	.8	5.5	260	0	210	208
APR										
13...	220	150	71	12	.9	6.4	310	0	250	20
MAY										
11...	170	120	65	13	.9	7.0	270	0	220	22
JUN										
15...	200	150	90	15	1.2	6.6	100	0	82	6.4
JUL										
11...	--	--	--	--	--	--	310	--	250	3.9
13...	240	170	83	12	1.0	8.2	300	0	250	19
AUG										
11...	130	100	60	15	1.0	6.4	190	0	160	19
SEP										
08...	210	160	110	17	1.4	8.4	320	0	260	13

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
NOV								
03...	1100	10	.3	7.5	1880	1750	2.56	3.45
DEC								
02...	1200	9.1	.2	6.7	1940	1930	2.64	2.62
JAN								
06...	980	9.3	.2	5.7	2290	1740	3.11	2.29
FEB								
03...	1100	13	.2	7.2	1860	1810	2.53	1.10
MAR								
08...	740	7.7	.2	4.1	1250	1210	1.70	3.54
APR								
13...	920	8.8	.3	3.3	1740	1530	2.37	3.85
MAY								
11...	780	7.3	.2	4.8	1410	1290	1.92	18.7
JUN								
15...	1100	9.2	.2	6.7	1820	1610	2.48	2.21
JUL								
11...	1100	10	--	--	--	--	--	--
13...	1100	10	.2	7.5	1970	1770	2.68	1.28
AUG								
11...	660	36	.2	5.6	1160	1098	1.58	41.7
SEP								
08...	1000	11	.2	8.3	1790	1670	2.43	3.09

05570380 SLUG RUN NEAR BRYANT, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL AMMONIA NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL KJEL. NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM MATERIAL (MG/KG)
JUN											
15...	--	2.1	--	33	--	--	4200	--	--	--	480
JUL											
11...	.01	--	.05	--	.15	.20	--	.21	.90	.02	--

DATE	TOTAL ALUMINUM (AL) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)
JUN											
15...	--	19	--	<10	--	10	<10	--	10	--	5000
JUL											
11...	270	--	0	--	10	--	--	2	--	1000	--

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV										
03...	--	--	--	--	--	--	--	--	--	9.6
DEC										
02...	--	--	--	--	--	--	--	--	--	6.0
JAN										
06...	--	--	--	--	--	--	--	--	--	8.1
FEB										
03...	--	--	--	--	--	--	--	--	--	27
MAR										
08...	--	--	--	--	--	--	--	--	--	5.7
APR										
13...	--	--	--	--	--	--	--	--	--	5.8
MAY										
11...	--	--	--	--	--	--	--	--	--	7.8
JUN										
15...	--	<10	--	880	--	.0	--	--	50	8.0
JUL										
11...	9	--	310	--	.2	--	12	10	--	--
13...	--	--	--	--	--	--	--	--	--	7.1
AUG										
11...	--	--	--	--	--	--	--	--	--	7.0
SEP										
08...	--	--	--	--	--	--	--	--	--	11

DATE	PCB IN BOTTOM MATERIAL (UG/KG)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	ETHION IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)
JUN											
15...	0	.0	0	.0	.0	1.7	.0	.0	.0	.0	.0

DATE	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TRITHION IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)
JUN											
15...	.0	.0	.0	.0	.0	.0	0	.0	0	0	0

05570380 SLUG RUN NEAR BRYANT, IL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2100	2060	2090	2040	1940	2010	2260	2100	2180	---	---	---
2	2090	2060	2080	2040	2000	2020	2360	2210	2270	---	---	---
3	2120	2080	2100	2060	2040	2050	2370	2170	2250	2620	2550	2590
4	2140	2040	2100	2100	2070	2080	2230	2170	2200	2600	2520	2550
5	2050	1480	1800	2130	2060	2090	2330	2190	2240	2600	2510	2550
6	1940	1760	1910	2130	2080	2100	2200	2160	2190	2640	2510	2580
7	1970	1920	1930	2110	2070	2090	2380	2220	2300	2570	2490	2520
8	1980	1910	1960	2220	2060	2120	2310	2200	2270	2530	2460	2490
9	1980	1940	1970	2160	2110	2130	2240	2110	2180	2520	2440	2480
10	1980	1950	1960	2140	2100	2120	2200	2010	2120	2430	2400	2410
11	2000	1530	1950	2180	2070	2100	2260	2180	2210	2500	2420	2450
12	2010	1980	2000	2320	2100	2180	2220	2130	2180	2490	2440	2450
13	2050	1990	2020	2320	2090	2180	2370	2210	2270	2500	2450	2470
14	2100	2050	2070	2290	2080	2170	2320	2200	2260	2520	2470	2480
15	2070	2050	2060	2180	2070	2130	2290	2200	2250	2520	2380	2450
16	2120	2010	2060	2250	2080	2150	2250	2200	2230	2430	2350	2390
17	2090	2020	2050	2160	2080	2120	2240	2210	2230	2480	2340	2400
18	2090	2010	2060	2140	2110	2130	2250	2200	2230	2400	2360	2370
19	2090	2010	2060	2130	2100	2110	2240	2100	2190	2380	2340	2360
20	2060	2040	2050	2140	2110	2120	2310	2090	2220	2360	2310	2330
21	2050	2020	2040	2120	2100	2110	2430	2290	2360	2330	2290	2310
22	2080	2030	2040	2180	2110	2140	2420	2240	2330	2330	2270	2300
23	2050	2010	2030	2260	1860	2080	2430	2280	2360	2320	2280	2290
24	2060	1900	1970	2130	1880	2050	2500	2260	2390	2320	2290	2310
25	2070	1970	2010	2170	2130	2150	2360	2260	2310	2320	2270	2300
26	2070	2020	2050	2180	1890	2080	2380	2270	2320	2300	2250	2270
27	2060	2030	2050	2160	1900	2070	2350	2260	2300	2300	2250	2280
28	2090	2020	2040	2380	2160	2250	2370	2260	2290	2320	2250	2290
29	2090	2040	2060	2530	2320	2450	2610	2400	2500	2300	2260	2280
30	2080	1760	1940	2530	1890	2260	---	---	---	2310	2290	2300
31	2050	1950	2020	---	---	---	---	---	---	2320	2300	2320
MONTH	2140	1480	2020	2530	1860	2130	2610	2010	2260	2640	2250	2400
		FEBRUARY			MARCH			APRIL			MAY	
1	2330	2310	2320	1520	1470	1490	1880	1820	1850	2070	2000	2050
2	2340	2300	2320	1560	1510	1540	1890	1850	1870	2060	1990	2040
3	2320	2300	2310	1550	1490	1520	1900	1860	1880	2120	1770	2010
4	2310	2260	2290	1560	1480	1510	1910	1860	1890	2060	1490	1870
5	2330	2290	2320	1600	1530	1560	1900	1870	1890	1930	744	1690
6	2340	2300	2330	1640	1580	1620	1910	1850	1890	1600	924	1340
7	2340	2310	2320	1680	1640	1650	1940	1890	1910	1550	1430	1490
8	2330	2300	2310	1840	1650	1720	1950	1910	1930	1610	1550	1580
9	2320	2140	2270	1840	1780	1810	1980	1940	1960	1640	1600	1620
10	2310	1500	2070	1860	1760	1810	2000	1960	1980	1650	1620	1630
11	2060	1240	1820	1860	959	1690	2000	1970	1980	1670	1630	1650
12	1850	1260	1620	1550	1270	1450	2010	1980	1990	1700	1660	1680
13	1590	1460	1540	1600	1550	1570	2060	1990	2010	1760	1690	1720
14	1620	1580	1600	1730	1600	1670	2100	1990	2030	1770	1730	1750
15	1620	1600	1610	1720	1680	1700	2090	2000	2040	1780	1750	1760
16	1650	1580	1620	1770	1710	1740	2080	1970	2020	1800	1750	1780
17	1670	1600	1640	1820	1760	1800	2060	1960	2020	1820	1040	1620
18	1680	1630	1660	1830	1810	1820	2030	1960	2000	1780	1610	1740
19	1670	1630	1660	1860	1810	1840	2020	1940	2000	1830	1780	1820
20	1700	1670	1680	1850	1730	1800	2010	1890	1970	1910	1790	1850
21	1720	1670	1700	1830	1770	1800	1980	1880	1950	1970	1860	1900
22	1730	1360	1590	1840	1810	1830	1980	1930	1960	1980	1830	1900
23	1500	877	1260	1860	1820	1840	1980	1950	1970	2050	1940	2020
24	1290	1210	1260	1900	1840	1870	1990	1950	1970	2060	1980	2030
25	1330	1280	1310	1940	1880	1910	2000	1960	1980	2080	2010	2040
26	1370	1320	1350	2380	1920	2020	2010	1960	1990	2080	1990	2050
27	1430	1370	1400	2170	1940	2010	2040	1980	2000	2090	1990	2050
28	1480	1430	1460	1970	1360	1750	2030	1990	2010	2060	1870	2020
29	---	---	---	1770	1710	1750	2050	1980	2020	2070	2000	2030
30	---	---	---	1830	1760	1790	2050	2010	2030	2060	2020	2040
31	---	---	---	1850	1820	1830	---	---	---	2040	1350	1820
MONTH	2340	877	1810	2380	959	1730	2100	1820	1970	2120	744	1830

05570380 SLUG RUN NEAR BRYANT, IL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	2060	1720	1960	2260	1430	2020	---	---	---	---	---	---
2	2090	2020	2040	2120	1790	2030	---	---	---	---	---	---
3	2140	2060	2090	2240	2190	2210	---	---	---	---	---	---
4	2160	2110	2120	2300	2210	2250	---	---	---	---	---	---
5	2190	2040	2140	2330	2250	2290	---	---	---	---	---	---
6	2220	2150	2190	2300	2240	2250	---	---	---	---	---	---
7	2270	1910	2190	2270	2240	2250	---	---	---	---	---	---
8	2290	1930	2180	2250	2190	2210	---	---	---	---	---	---
9	2310	2240	2270	2320	2250	2290	---	---	---	---	---	---
10	2300	1250	2020	2320	2270	2290	---	---	---	---	---	---
11	2310	2170	2250	2280	2230	2250	---	---	---	---	---	---
12	2300	2250	2270	2270	2230	2250	1410	1370	1390	---	---	---
13	2280	2250	2260	2280	2230	2250	1450	1410	1430	---	---	---
14	2300	2250	2270	2300	2250	2270	1470	1450	1460	---	---	---
15	2330	2280	2300	2300	2250	2280	1490	1470	1480	---	---	---
16	2350	1810	2120	2290	1690	2110	1510	1490	1500	---	---	---
17	2240	1860	1960	2330	2220	2290	1540	1500	1520	---	---	---
18	2270	1960	2170	2360	2300	2330	1540	1520	1530	---	---	---
19	2280	2230	2260	2370	2320	2350	1550	1100	1390	---	---	---
20	2290	2240	2270	2370	2340	2360	1530	1120	1380	---	---	---
21	2280	2240	2260	2390	2340	2360	1600	1460	1550	---	---	---
22	2260	2020	2160	2400	2350	2380	1620	1570	1610	---	---	---
23	2340	2230	2270	2420	2360	2390	1680	1620	1650	1650	1480	1620
24	2360	2320	2330	2430	1970	2300	1710	1630	1680	1620	1580	1600
25	2370	2310	2350	2440	2370	2390	---	---	---	1610	1580	1590
26	2350	2290	2320	2460	2400	2420	---	---	---	1610	1570	1590
27	2310	2250	2290	2500	2420	2450	---	---	---	1600	1580	1590
28	2300	2020	2210	2500	2420	2450	---	---	---	1620	1570	1590
29	2270	2220	2240	2520	2450	2470	---	---	---	---	---	---
30	2250	1610	2050	2540	2470	2510	---	---	---	---	---	---
31	---	---	---	2590	1410	2150	---	---	---	---	---	---
MONTH	2370	1250	2190	2590	1410	2290	1710	1100	1510	1650	1480	1600
YEAR	2640	744	2030									

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.5	11.0	15.0	10.0	3.0	6.5	0.5	0.5	0.5	0.5	0.0	0.0
2	22.0	12.0	16.0	12.0	5.0	8.0	0.5	0.5	0.5	0.5	0.0	0.0
3	23.0	13.0	17.0	8.0	4.0	6.0	0.5	0.5	0.5	0.0	0.0	0.0
4	21.0	13.5	17.0	7.5	3.5	5.0	0.5	0.5	0.5	0.0	0.0	0.0
5	17.0	12.0	14.0	7.5	2.0	4.0	1.0	0.5	0.5	0.0	0.0	0.0
6	15.0	10.5	12.5	8.5	2.5	5.0	1.0	0.5	0.5	0.0	0.0	0.0
7	13.5	10.0	11.5	6.0	1.5	3.5	0.5	0.5	0.5	0.0	0.0	0.0
8	14.0	8.0	10.5	3.0	1.0	2.0	0.5	0.5	0.5	0.0	0.0	0.0
9	14.0	9.5	11.0	8.0	2.5	5.0	0.5	0.5	0.5	0.0	0.0	0.0
10	15.5	7.5	11.0	6.0	2.0	3.5	0.5	0.5	0.5	0.0	0.0	0.0
11	16.5	9.0	12.0	4.0	1.0	2.0	0.5	0.5	0.5	0.0	0.0	0.0
12	20.0	10.5	14.5	2.0	1.0	1.0	0.5	0.5	0.5	0.0	0.0	0.0
13	16.5	10.0	13.0	2.0	1.0	1.0	0.5	0.5	0.5	0.0	0.0	0.0
14	16.0	7.0	11.0	1.5	0.5	1.0	0.5	0.5	0.5	0.0	0.0	0.0
15	14.5	8.5	11.5	2.5	1.0	1.5	0.5	0.5	0.5	0.0	0.0	0.0
16	10.5	6.0	8.5	3.0	0.5	1.5	1.0	0.5	0.5	0.0	0.0	0.0
17	11.5	5.5	8.0	3.5	1.0	2.0	1.0	0.5	0.5	0.0	0.0	0.0
18	9.0	3.5	6.5	6.5	1.0	3.5	1.5	0.5	1.0	0.0	0.0	0.0
19	9.0	7.5	8.0	6.5	3.0	4.5	1.5	0.5	1.0	0.0	0.0	0.0
20	10.0	6.5	8.0	6.5	2.5	4.0	1.5	0.5	1.0	0.0	0.0	0.0
21	10.0	4.5	6.5	3.5	1.5	2.5	0.5	0.0	0.5	0.0	0.0	0.0
22	9.5	2.0	5.0	2.5	0.5	1.5	0.5	0.0	0.5	0.0	0.0	0.0
23	8.5	4.5	7.0	2.5	0.5	1.5	0.5	0.0	0.5	0.5	0.0	0.5
24	10.0	8.5	9.0	5.0	1.5	3.0	0.5	0.0	0.0	0.5	0.5	0.5
25	11.5	7.5	9.0	8.0	1.0	4.5	0.5	0.0	0.0	0.5	0.5	0.5
26	9.5	5.0	7.0	8.5	5.0	7.0	0.5	0.0	0.0	0.5	0.0	0.0
27	9.0	3.5	6.0	5.0	0.5	2.5	0.5	0.0	0.0	0.0	0.0	0.0
28	8.5	1.5	4.5	1.0	0.5	0.5	0.5	0.0	0.5	0.0	0.0	0.0
29	8.5	2.5	5.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
30	7.5	6.5	7.0	1.0	0.5	0.5	0.0	0.0	0.0	0.5	0.0	0.0
31	11.5	5.0	8.0	---	---	---	0.5	0.0	0.0	0.5	0.0	0.0
MONTH	23.0	1.5	10.0	12.0	0.5	3.0	1.5	0.0	0.5	0.5	0.0	0.0

05570380 SLUG RUN NEAR BRYANT, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.5	0.0	0.0	5.5	0.0	1.5	13.5	5.5	9.0	17.0	10.5	14.5
2	0.5	0.0	0.0	5.5	0.0	2.0	17.0	8.0	11.0	21.5	14.5	17.5
3	0.5	0.5	0.5	3.5	2.5	3.0	15.0	6.0	10.0	25.0	13.5	18.5
4	0.5	0.0	0.5	3.0	1.5	2.5	9.5	4.5	7.5	23.0	15.5	18.0
5	0.0	0.0	0.0	7.0	1.0	2.5	8.0	4.0	5.5	27.5	15.5	20.5
6	0.0	0.0	0.0	7.5	0.0	2.5	13.0	2.5	6.5	20.5	17.5	19.0
7	0.0	0.0	0.0	9.0	0.0	3.5	16.0	3.5	9.0	24.5	17.5	21.0
8	0.0	0.0	0.0	12.5	1.0	5.5	15.5	4.5	9.0	24.0	17.0	20.5
9	0.0	0.0	0.0	13.5	5.0	8.0	19.0	5.0	10.5	22.5	15.5	18.5
10	0.0	0.0	0.0	13.0	4.0	8.0	22.0	7.0	13.0	22.5	14.0	17.5
11	0.0	0.0	0.0	9.5	7.0	8.5	23.0	8.0	14.0	21.0	14.5	17.0
12	0.0	0.0	0.0	8.5	7.5	8.0	24.5	9.0	15.5	23.0	12.5	17.0
13	0.5	0.0	0.0	8.5	7.0	7.5	21.0	10.0	15.0	25.0	12.0	18.0
14	0.5	0.0	0.0	12.5	5.5	8.5	25.0	12.0	17.0	25.0	14.0	19.0
15	1.0	0.0	0.0	12.0	7.0	9.0	26.5	13.5	18.5	26.5	15.5	20.5
16	1.0	0.0	0.0	13.0	5.5	8.5	29.0	13.0	19.5	27.5	17.5	22.0
17	1.5	0.0	0.5	7.5	6.0	7.0	29.0	14.0	20.0	25.5	19.0	21.5
18	2.5	0.0	1.5	7.0	5.5	6.0	25.5	14.0	19.0	29.5	18.0	23.0
19	2.0	0.5	1.0	7.0	4.0	5.0	22.5	16.0	19.0	29.0	18.0	22.5
20	2.5	0.0	1.0	9.0	4.0	6.0	24.0	16.5	19.5	26.0	17.5	21.0
21	2.5	0.0	1.0	7.0	3.0	5.0	19.0	16.5	17.5	27.0	16.5	21.0
22	4.0	1.0	2.0	9.5	2.0	5.5	16.5	13.5	15.0	26.0	18.0	21.0
23	2.5	0.5	2.0	11.5	3.5	6.5	16.5	12.5	14.0	26.5	15.0	21.0
24	2.5	1.5	2.0	11.5	3.0	6.0	22.0	11.0	14.5	27.0	17.0	22.0
25	5.5	1.5	2.5	14.0	3.5	8.0	16.5	8.5	12.0	29.0	17.5	22.5
26	2.5	1.0	2.0	15.5	5.0	9.5	21.5	7.5	14.0	29.5	18.5	23.0
27	3.5	0.5	1.5	11.0	9.5	10.5	24.5	10.5	16.5	29.0	17.0	22.0
28	4.0	0.0	1.5	11.0	10.0	10.5	15.5	9.0	13.0	28.5	18.5	22.0
29	---	---	---	14.5	9.0	11.5	20.5	6.0	12.5	26.0	17.5	21.5
30	---	---	---	15.0	7.5	11.0	15.0	8.5	12.0	28.0	17.5	22.5
31	---	---	---	10.5	6.0	8.0	---	---	---	29.0	18.0	22.0
MONTH	5.5	0.0	0.5	15.5	0.0	6.5	29.0	2.5	13.5	29.5	10.5	20.0
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.0	14.0	18.5	26.5	12.0	18.5	---	---	---	27.0	23.0	24.5
2	24.5	12.5	18.5	28.0	12.0	19.5	---	---	---	27.5	21.5	24.0
3	25.0	11.0	17.5	30.5	17.0	23.0	---	---	---	26.0	20.0	22.5
4	26.0	13.5	19.0	34.5	19.5	24.0	---	---	---	28.5	21.0	24.0
5	30.5	17.5	23.0	34.0	19.0	25.5	---	---	---	27.5	21.5	24.0
6	22.5	14.0	20.0	34.5	20.0	26.0	---	---	---	27.0	19.0	22.5
7	25.5	11.5	17.0	33.5	22.0	27.0	---	---	---	28.0	17.5	22.0
8	19.5	13.5	16.0	27.0	21.5	24.0	---	---	---	28.0	18.5	22.5
9	23.5	10.5	16.0	31.5	18.5	23.5	---	---	---	24.5	16.5	21.0
10	21.5	12.0	16.0	29.0	16.5	22.5	---	---	---	23.0	13.0	17.5
11	25.0	15.0	19.0	28.0	21.5	24.5	---	---	---	23.5	12.5	17.5
12	23.0	15.5	19.0	33.0	22.0	26.5	25.0	21.0	23.0	18.5	15.5	16.5
13	19.0	14.5	16.0	34.5	22.0	27.5	27.0	22.0	24.5	19.5	17.5	19.0
14	25.0	13.5	18.5	34.5	23.5	28.5	27.0	23.5	25.0	21.5	15.5	18.5
15	28.5	14.0	20.5	35.0	24.0	28.5	28.0	22.0	25.0	20.0	15.0	18.0
16	27.5	15.5	22.0	28.5	23.5	26.0	28.0	24.0	26.0	21.5	18.5	20.0
17	30.5	21.0	25.0	34.5	21.5	27.0	28.0	21.0	24.0	21.5	19.0	20.0
18	26.0	19.0	23.0	29.5	23.5	26.5	25.0	18.0	21.5	23.5	19.5	21.5
19	30.0	16.0	22.5	33.5	22.0	27.5	23.0	18.5	20.5	22.0	19.5	20.5
20	30.0	17.0	22.0	32.5	23.0	26.0	25.0	19.5	22.0	22.0	17.5	19.5
21	26.0	14.5	20.0	30.5	23.0	26.5	26.5	21.0	23.0	21.5	17.0	19.0
22	18.5	17.0	17.5	29.5	20.0	24.5	26.0	18.5	22.0	22.5	18.0	19.5
23	22.5	16.5	19.5	30.5	17.0	23.0	23.5	20.5	22.0	22.5	17.0	20.0
24	27.5	17.5	22.0	28.5	21.0	25.0	25.0	20.0	22.0	24.0	18.5	21.0
25	33.0	19.5	25.0	31.5	21.5	25.5	24.5	18.5	21.5	24.0	17.0	20.5
26	31.5	17.5	23.5	26.0	15.5	21.0	24.5	21.0	22.5	24.5	17.0	20.5
27	32.0	19.5	25.0	26.0	13.5	19.5	29.0	22.0	25.0	23.0	17.0	19.5
28	26.0	19.0	22.0	27.5	14.5	20.5	25.0	22.0	23.5	23.5	16.0	19.0
29	27.5	14.0	20.5	30.5	20.5	24.5	27.0	20.5	23.0	23.5	16.0	19.0
30	22.0	16.0	19.0	32.0	20.5	25.5	26.0	18.5	22.0	20.5	17.0	18.0
31	---	---	---	33.0	20.0	24.5	28.5	21.0	24.5	---	---	---
MONTH	33.0	10.5	20.0	35.0	12.0	24.5	29.0	18.0	23.0	28.5	12.5	20.5
YEAR	35.0	0.0	11.5									

05570380 SLUG RUN NEAR BRYANT, IL--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	87	0.15	150	0.33	125	0.17	115	0.13	120	0.07	130	0.53
2	85	0.15	150	0.30	125	0.17	116	0.13	121	0.07	130	0.49
3	83	0.16	147	0.26	125	0.17	116	0.12	122	0.07	125	0.57
4	81	0.16	143	0.21	120	0.16	114	0.12	122	0.07	125	0.56
5	263	1.1	140	0.20	120	0.16	114	0.12	120	0.07	122	0.43
6	175	0.71	138	0.20	120	0.16	112	0.11	120	0.07	121	0.49
7	100	0.32	136	0.19	121	0.20	114	0.11	119	0.07	121	0.39
8	75	0.20	140	0.20	121	0.24	116	0.12	118	0.07	122	0.33
9	67	0.16	140	0.20	122	0.20	112	0.11	118	0.07	121	0.39
10	63	0.15	138	0.20	122	0.19	110	0.11	118	0.07	121	0.39
11	60	0.14	139	0.19	122	0.18	110	0.11	118	0.10	389	25
12	58	0.12	140	0.19	122	0.17	110	0.11	208	0.84	580	40
13	58	0.12	140	0.19	120	0.17	108	0.11	120	0.23	100	2.5
14	58	0.10	141	0.18	120	0.16	107	0.11	120	0.19	65	1.0
15	58	0.10	143	0.17	120	0.16	106	0.11	117	0.16	70	0.74
16	57	0.10	150	0.18	121	0.16	106	0.11	120	0.15	71	0.56
17	55	0.09	150	0.18	121	0.16	106	0.11	121	0.14	71	0.44
18	52	0.08	150	0.19	121	0.16	104	0.10	122	0.14	70	0.43
19	50	0.09	147	0.20	121	0.16	104	0.10	122	0.13	69	0.37
20	50	0.09	147	0.18	121	0.16	102	0.10	124	0.13	70	0.68
21	47	0.07	148	0.18	119	0.16	102	0.10	124	0.13	73	0.95
22	47	0.07	149	0.16	119	0.16	102	0.10	124	0.13	72	0.74
23	48	0.08	263	1.6	119	0.16	103	0.10	123	0.17	72	0.49
24	48	0.08	150	0.57	118	0.16	103	0.10	300	4.1	73	0.35
25	48	0.07	145	0.22	118	0.16	103	0.10	250	2.7	75	0.34
26	48	0.07	140	0.26	118	0.16	106	0.10	200	1.2	80	0.43
27	48	0.07	137	0.27	117	0.15	110	0.10	126	0.61	82	0.40
28	48	0.07	130	0.20	117	0.15	110	0.09	126	0.54	200	4.3
29	47	0.07	130	0.18	117	0.14	110	0.08	---	---	124	2.2
30	180	0.39	130	0.18	116	0.13	110	0.08	---	---	120	1.3
31	170	0.36	---	---	114	0.13	115	0.07	---	---	110	0.86
TOTAL	---	5.69	---	7.96	---	5.12	---	3.27	---	12.49	---	88.63
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	112	0.67	120	0.17	56	0.13	350	0.64	295	0.25	157	0.51
2	113	0.64	120	0.17	55	0.11	335	0.47	290	0.34	158	0.43
3	115	0.53	115	0.17	54	0.09	330	0.30	284	0.35	159	0.39
4	112	0.51	125	0.61	54	0.09	325	0.29	280	0.34	157	0.33
5	110	0.53	530	67	53	0.09	327	0.26	300	0.49	158	0.31
6	105	0.45	1010	181	54	0.09	320	0.23	500	26	157	0.27
7	104	0.37	125	6.4	60	0.09	330	0.21	416	30	156	0.27
8	53	0.13	120	3.6	61	0.11	333	0.26	400	37	156	0.27
9	53	0.13	107	2.3	62	0.09	332	0.25	375	23	153	0.24
10	52	0.12	106	1.6	277	0.97	335	0.24	375	25	155	0.23
11	51	0.11	105	1.3	136	0.30	339	0.23	350	13	154	0.22
12	51	0.12	107	1.1	135	0.24	330	0.23	300	8.0	200	0.81
13	52	0.13	121	0.72	138	0.24	332	0.23	160	2.8	500	7.2
14	105	0.34	100	0.68	136	0.22	335	0.21	157	1.9	475	5.1
15	105	0.34	63	0.39	134	0.18	330	0.21	158	1.5	520	11
16	103	0.39	63	0.41	131	0.46	327	0.32	157	1.3	500	8.4
17	105	0.45	62	0.55	132	0.39	325	0.30	156	1.1	450	6.3
18	107	0.49	63	0.41	133	0.23	323	0.26	155	1.1	600	15
19	110	0.50	61	0.36	132	0.15	324	0.28	155	1.6	500	11
20	110	0.59	60	0.34	131	0.13	322	0.24	154	2.2	475	8.0
21	110	0.62	57	0.31	129	0.12	319	0.24	154	1.8	450	6.6
22	111	0.63	53	0.23	133	0.14	318	0.22	153	1.4	425	5.4
23	109	0.47	52	0.17	132	0.14	317	0.21	153	1.4	430	5.0
24	112	0.36	52	0.14	131	0.13	318	0.27	154	1.6	500	8.4
25	111	0.27	55	0.18	130	0.13	315	0.26	154	1.1	450	5.3
26	113	0.23	57	0.18	130	0.12	310	0.23	153	1.4	400	4.0
27	115	0.20	55	0.18	131	0.11	311	0.21	154	1.0	375	3.2
28	112	0.16	54	0.17	131	0.12	309	0.22	153	0.87	350	2.9
29	111	0.16	53	0.14	132	0.12	305	0.21	155	0.88	300	2.7
30	110	0.16	54	0.15	131	0.17	303	0.20	157	0.68	400	6.5
31	---	---	56	0.18	---	---	300	0.58	160	0.52	---	---
TOTAL	---	10.80	---	271.31	---	5.70	---	8.51	---	189.92	---	126.28

TOTAL LOAD FOR YEAR: 735.68 TONS.

05571000 SANGAMON RIVER AT MAHOMET, IL

LOCATION.--Lat 40°11'30", long 88°24'00", in NE¼SW¼ sec.15, T.20 N., R.7 E., Champaign County, Hydrologic Unit 07130006, on right bank at downstream side of bridge on U.S. Highway 150 in Mahomet, 0.7 mi (1.1 km) upstream from Penn Central Railroad bridge.

DRAINAGE AREA.--362 mi² (938 km²).

PERIOD OF RECORD.--March 1948 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 664.98 ft (202.686 m) above mean sea level. Prior to Dec. 21, 1948, nonrecording gage at same site and datum. Prior to Oct. 1, 1974, at datum 0.13 ft (0.040 m) higher.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--29 years, 260 ft³/s (7.363 m³/s), 9.75 in/yr (248 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,600 ft³/s (413 m³/s) May 28, 1956, gage height, 19.96 ft (6.084 m); no flow Sept. 25 to Oct. 3, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 7	2045	2220	62.9	11.90	3.627	Aug. 9	0800	*5580	158	*17.51	5.337

Minimum daily discharge, 0.60 ft³/s (0.017 m³/s) Jan. 29 to Feb. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	6.5	8.0	1.7	.60	41	343	53	89	28	21	245
2	1.9	7.7	6.0	1.7	.60	25	574	108	83	25	17	202
3	2.2	6.1	4.5	1.6	.60	28	626	267	76	22	15	201
4	2.8	5.7	4.0	1.6	.60	36	447	267	70	17	14	179
5	4.1	6.9	3.6	1.5	.60	40	412	861	68	12	19	159
6	13	7.7	3.3	1.5	.60	45	348	1460	68	9.2	2010	138
7	16	8.6	3.2	1.4	.60	38	285	2160	66	9.2	4200	130
8	13	8.2	3.1	1.4	.60	38	248	2060	65	22	4300	120
9	8.7	7.7	3.0	1.3	.70	51	214	1500	70	46	5420	100
10	6.3	10	3.0	1.3	1.5	72	199	992	71	31	4240	90
11	4.1	11	3.0	1.2	3.0	65	183	664	58	22	2940	84
12	8.2	8.6	3.0	1.2	20	168	162	516	55	20	2090	84
13	5.7	6.5	2.9	1.1	18	190	152	432	54	16	1480	230
14	4.5	5.7	2.8	1.0	12	112	148	375	50	14	1110	450
15	4.5	4.9	2.7	.95	8.0	67	138	329	47	12	802	720
16	4.9	4.5	2.5	.90	6.0	45	127	290	47	71	673	860
17	6.9	4.5	2.4	.85	5.0	34	119	261	46	213	899	800
18	4.9	4.5	2.3	.80	4.5	96	110	243	44	168	630	660
19	3.5	5.7	2.3	.76	4.5	170	105	222	41	92	482	600
20	2.8	5.7	2.2	.74	4.5	136	103	231	36	58	388	540
21	2.8	5.7	2.2	.72	4.5	106	104	205	32	158	332	500
22	2.5	5.3	2.1	.70	8.0	105	100	185	29	320	486	450
23	2.5	4.9	2.1	.66	25	139	92	165	30	210	496	370
24	3.1	4.5	2.0	.64	81	294	83	148	32	102	364	380
25	3.8	4.9	2.0	.62	186	314	78	143	32	65	300	400
26	3.8	5.7	1.9	.62	143	253	72	138	31	139	248	440
27	3.8	7.3	1.9	.62	79	214	68	131	27	80	217	360
28	4.1	8.2	1.9	.62	58	496	63	124	24	48	192	310
29	12	7.3	1.8	.60	---	896	59	114	25	38	259	280
30	8.6	10	1.8	.60	---	705	55	105	27	29	419	250
31	6.9	---	1.8	.60	---	506	---	96	---	26	329	---
TOTAL	174.4	200.5	89.3	31.50	677.00	5611	5817	14845	1493	2122.4	35392	10332
MEAN	5.63	6.68	2.88	1.02	24.2	181	194	479	49.8	68.5	1142	344
MAX	16	11	8.0	1.7	186	896	626	2160	89	320	5420	860
MIN	1.9	4.5	1.8	.60	.60	25	55	53	24	9.2	14	84
CFSM	.02	.02	.008	.003	.07	.50	.54	1.32	.14	.19	3.16	.95
IN.	.02	.02	.01	.00	.07	.58	.60	1.53	.15	.22	3.64	1.06

CAL YR 1976 TOTAL 72557.70 MEAN 198 MAX 3890 MIN 1.7 CFSM .55 IN 7.46
WTR YR 1977 TOTAL 76785.10 MEAN 210 MAX 5420 MIN .60 CFSM .58 IN 7.89

05572000 SANGAMON RIVER AT MONTICELLO, IL

LOCATION.--Lat 40°01'51", long 88°35'20", in SW¼ sec.12, T.18 N., R.5 E., Piatt County, Hydrologic Unit 07130006, near center of span on downstream side of highway bridge, 0.5 mi (0.8 km) west of Monticello.

DRAINAGE AREA.--550 mi^2 (1,424 km^2).

PERIOD OF RECORD.--February 1908 to December 1912, June 1914 to current year. Monthly discharge only for some periods, published in WSP 1308. Published as "near Monticello" 1910-12.

REVISED RECORDS.--WSP 525: 1920. WSP 1115: 1946-47. WSP 1208: 1915-16, 1918-20, 1927, 1929, 1939. WSP 1508: 1908(M), 1917, 1928(M).

GAGE.--Water-stage recorder. Datum of gage is 625.89 ft (190.771 m) above mean sea level. Prior to Sept. 30, 1964, nonrecording gage at site 0.2 mi (0.3 km) downstream at same datum. Oct. 1, 1964, to Oct. 22, 1971, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--67 years, 397 ft^3/s (11.24 m^3/s), 9.80 in/yr (249 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,000 ft^3/s (538 m^3/s) Oct. 4, 1926, gage height, 18.50 ft (5.639 m), from graph based on gage readings, site then in use; maximum gage height, 18.55 ft (5.654 m) May 16, 1968; minimum discharge, 0.2 ft^3/s (0.006 m^3/s) Oct. 10, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft^3/s (51 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 9	0345	2680	75.9	12.74	3.883	Aug. 10	1830	*5950	169	*15.43	4.703

Minimum daily discharge, 3.2 ft^3/s (0.091 m^3/s) Jan. 21-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	11	5.6	3.6	3.7	54	704	100	149	44	38	351
2	10	9.6	4.8	3.5	3.7	47	863	128	137	39	33	271
3	6.9	9.0	4.5	3.5	3.7	55	957	208	126	34	31	229
4	8.9	7.4	4.4	3.5	3.7	75	880	347	115	31	35	216
5	13	6.6	4.3	3.5	3.7	81	712	741	107	28	37	202
6	28	5.3	4.2	3.5	3.7	67	608	1590	107	25	361	290
7	21	4.7	4.2	3.5	3.7	64	517	2410	102	28	1810	221
8	18	6.7	4.2	3.4	3.7	62	438	2580	103	36	2890	185
9	15	7.8	4.2	3.4	4.5	63	372	2640	99	38	3940	163
10	14	9.0	4.2	3.4	6.6	68	336	2290	98	48	5550	144
11	14	8.4	4.2	3.4	10	77	305	1670	98	48	5540	128
12	12	7.8	4.2	3.4	20	225	281	1050	91	86	4900	126
13	9.8	5.2	4.2	3.4	35	356	256	817	87	47	3680	225
14	8.7	6.2	4.2	3.4	33	270	238	680	82	37	2630	598
15	9.1	8.1	4.2	3.4	28	188	228	592	77	30	1820	1050
16	5.4	7.5	4.2	3.3	20	131	214	513	73	517	1240	1340
17	4.4	7.8	4.2	3.3	15	105	194	456	71	463	1110	1540
18	6.2	7.5	4.1	3.3	13	169	182	406	65	294	1070	1260
19	7.2	6.1	4.0	3.3	12	208	174	369	63	205	780	992
20	8.1	3.8	3.9	3.3	11	233	169	340	60	130	600	902
21	7.7	3.7	3.9	3.2	11	199	158	331	55	110	506	894
22	6.8	6.5	3.9	3.2	20	212	159	297	56	185	511	726
23	4.8	6.6	3.9	3.2	40	301	161	266	55	287	671	578
24	5.6	5.3	3.8	3.2	74	347	154	244	57	194	530	588
25	5.3	5.0	3.8	3.3	90	394	142	228	103	117	413	598
26	7.0	5.9	3.8	3.5	104	363	132	229	60	80	336	684
27	5.9	6.4	3.8	3.7	83	310	120	211	54	116	276	592
28	6.1	5.6	3.8	3.7	68	559	110	195	50	92	252	488
29	5.4	6.6	3.7	3.7	---	1040	105	190	47	64	406	415
30	5.8	6.5	3.7	3.7	---	1140	100	167	45	54	494	379
31	6.6	---	3.7	3.7	---	998	---	157	---	45	483	---
TOTAL	300.7	203.6	127.8	106.4	727.7	8461	9969	22440	2492	3552	42973	16375
MEAN	9.70	6.79	4.12	3.43	26.0	273	332	724	83.1	115	1386	546
MAX	28	11	5.6	3.7	104	1140	957	2640	149	517	5550	1540
MIN	4.4	3.7	3.7	3.2	3.7	47	100	100	45	25	31	126
CFSM	.02	.01	.007	.006	.05	.50	.60	1.32	.15	.21	2.52	.99
IN.	.02	.01	.01	.01	.05	.57	.67	1.52	.17	.24	2.91	1.11

CAL YR 1976 TOTAL 99650.0 MEAN 272 MAX 3460 MIN 3.7 CFSM .50 IN 6.74
WTR YR 1977 TOTAL 107728.2 MEAN 295 MAX 5550 MIN 3.2 CFSM .54 IN 7.29

05572450 FRIENDS CREEK AT ARGENTA, IL

LOCATION.--Lat 39°59'21", long 88°48'18", in SE¼NE¼ sec.25, T.18 N., R.3 E., Macon County, Hydrologic Unit 07130006, on right bank at upstream side of bridge on State Highways 47 and 48, 70 ft (21 m) downstream from Illinois Central Gulf Railroad bridge and 1 mi (2 km) northeast of Argenta.

DRAINAGE AREA.--111 mi² (287 km²).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 629.26 ft (191.798 m) above mean sea level.

REMARKS.--Records poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--11 years, 98.1 ft³/s (2.778 m³/s), 12.00 in/yr (305 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,660 ft³/s (160 m³/s) May 16, 1968, gage height, 15.63 ft (4.764 m), from rating curve extended above 2,200 ft³/s (62.3 m³/s); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 6	1615	1310	37.1	10.84	3.304	Aug. 7	2015	*2140	60.6	*12.42	3.786
July 16	0700	960	27.2	9.45	2.880						

Minimum daily discharge, 0.04 ft³/s (0.001 m³/s) Jan. 23 to Feb. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.20	.29	.07	.04	10	51	23	63	45	38	34
2	.07	.14	.24	.07	.04	12	149	52	59	33	22	28
3	.06	.10	.20	.07	.04	9.0	134	114	49	27	17	24
4	.06	.07	.17	.07	.04	10	100	124	41	23	14	22
5	.27	.07	.15	.07	.04	12	70	478	34	19	18	22
6	.48	.08	.12	.06	.04	9.6	50	1070	30	16	620	21
7	.06	.16	.11	.06	.04	9.7	45	1130	19	14	1720	18
8	.09	.10	.11	.06	.04	13	38	751	21	13	1660	16
9	.07	.08	.11	.06	.05	16	34	425	26	11	1090	15
10	.06	.07	.10	.06	1.0	19	31	280	26	8.7	886	14
11	.06	.06	.10	.05	6.0	18	29	204	24	7.7	767	13
12	.10	.06	.10	.05	5.6	29	27	158	30	171	828	14
13	.12	.07	.09	.05	4.5	26	25	130	23	77	633	18
14	.12	.10	.09	.05	3.5	16	24	113	18	38	432	28
15	.12	.14	.09	.05	3.0	12	23	94	15	26	331	30
16	.14	.12	.09	.05	2.5	8.9	21	74	14	725	289	36
17	.17	.11	.08	.05	2.2	7.3	20	55	12	470	249	37
18	.19	.10	.08	.05	2.0	26	19	34	11	217	206	34
19	.26	.10	.08	.05	1.9	26	18	30	9.0	131	174	41
20	.26	.10	.08	.05	1.8	22	17	33	7.1	81	148	40
21	.22	.30	.08	.05	1.8	18	17	30	7.8	82	137	34
22	.22	.55	.08	.05	1.8	18	17	27	9.1	68	133	31
23	.33	.40	.08	.04	2.5	21	35	20	9.8	43	114	29
24	.39	.30	.08	.04	30	21	61	20	9.2	32	97	33
25	.29	.63	.08	.04	25	18	55	40	8.6	26	77	38
26	.21	.89	.08	.04	18	16	46	48	9.1	20	65	35
27	.21	.99	.08	.04	12	15	41	33	132	17	55	30
28	.23	.78	.09	.04	11	95	34	34	146	15	43	27
29	.23	.77	.08	.04	---	156	29	74	106	30	52	25
30	.54	.58	.08	.04	---	93	28	70	69	26	52	40
31	.34	---	.09	.04	---	64	---	62	---	53	41	---
TOTAL	6.05	8.22	3.35	1.61	136.47	846.5	1288	5830	1037.7	2565.4	11008	827
MEAN	.20	.27	.11	.052	4.87	27.3	42.9	188	34.6	82.8	355	27.6
MAX	.54	.99	.29	.07	30	156	149	1130	146	725	1720	41
MIN	.06	.06	.08	.04	.04	7.3	17	20	7.1	7.7	14	13
CFSM	.002	.002	.001	.000	.04	.25	.39	1.69	.31	.75	3.20	.25
IN.	.00	.00	.00	.00	.05	.28	.43	1.95	.35	.86	3.69	.28

CAL YR 1976 TOTAL 18654.69 MEAN 51.0 MAX 979 MIN .01 CFSM .46 IN 6.25
WTR YR 1977 TOTAL 23558.30 MEAN 64.5 MAX 1720 MIN .04 CFSM .58 IN 7.90

05572500 SANGAMON RIVER NEAR OAKLEY, IL

LOCATION.--Lat 39°55'09", long 88°48'09", in SE¼NE¼ sec.24, T.17 N., R.3 E., Macon County, Hydrologic Unit 07130006, near center of span on downstream side of bridge, 2.4 mi (3.9 km) downstream from Friends Creek, 3 mi (5 km) north of Oakley, and about 4.5 mi (7.2 km) upstream from Lake Decatur.

DRAINAGE AREA.--774 mi^2 (2,005 km^2).

PERIOD OF RECORD.--July 1951 to September 1977 (discontinued), no low-flow records since September 1956.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 603.00 ft (183.794 m) above mean sea level (levels by Warren & Van Praag, Inc.).

REMARKS.--Records poor. Medium and low flows affected by operation of gates at Lake Decatur Dam. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--5 years (water years 1952-56), 331 ft^3/s (9.374 m^3/s), 5.81 in/yr (148 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft^3/s (453 m^3/s) June 23, 1974, gage height, 18.40 ft (5.608 m), from graph based on gage readings; maximum gage height, 18.85 ft (5.745 m) May 9, 1961, from graph based on gage readings; minimum not determined.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 18 or 19, 1943, reached a stage of 21.85 ft (6.660 m), from floodmark, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft^3/s (85 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 8	1200	3990	113	14.65	4.465	Aug. 11	1630	*8350	236	a*16.45	5.014

a From graph based on gage readings.

Minimum discharge not determined.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	850	---		---	---	---
2						---	1150	---		---	---	---
3						---	1080	---		---	---	---
4						---	1150	410		---	---	---
5						---	880	710		---	---	---
6						---	715	1980		---	538	---
7						---	690	3950		---	940	---
8						---	510	3990		---	4080	---
9						---	450	3630		---	5320	---
10						---	---	3000		---	5950	---
11						---	---	2100		---	7600	---
12						---	---	1350		---	7240	---
13						---	---	1100		---	6250	410
14						---	---	900		---	4420	1050
15						---	---	800		---	3680	1050
16						---	---	660		850	2470	1130
17						---	---	580		900	1480	1230
18						---	---	500		750	1530	1820
19						---	---	---		600	1130	1530
20						---	---	---		500	1100	820
21						---	---	---		---	928	---
22						---	---	---		---	502	650
23						---	---	---		---	506	640
24						---	---	---		---	510	398
25						---	---	---		---	502	---
26						---	---	---		---	---	---
27						---	---	---		---	---	---
28						850	---	---		---	---	---
29						1570	---	---		---	---	---
30						1600	---	---		---	---	---
31						850	---	---		---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---
CFSM	---	---	---	---	---	---	---	---	---	---	---	---
IN.	---	---	---	---	---	---	---	---	---	---	---	---

05573600 SPRING CREEK TRIBUTARY AT DECATUR, IL

LOCATION.--Lat 39°52'56", long 88°57'13", in NW¼SW¼ sec.35, T.17 N., R.2 E., Macon County, Hydrologic Unit 07130006, on left bank 300 ft (91 m) upstream from mouth in Decatur.

DRAINAGE AREA.--0.3 mi² (0.8 km²).

PERIOD OF RECORD.--August 1977 (discontinued).

INSTRUMENTATION.--Automatic water sampler in August 1977.

REMARKS.--Unpublished records of rainfall during August and September 1977 are available in files of district office.

WATER QUALITY DATA, AUGUST 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
AUG												
06...	0515	2.4	315	7.2	180	87	0	71	8.8	23	210	.07
06...	0520	3.2	270	7.1	370	78	0	64	9.9	17	232	.24
06...	0525	5.3	260	7.1	40	100	0	82	13	16	106	.65
06...	0530	8.2	180	7.4	45	60	0	49	3.8	7.4	41	.65
06...	0535	6.8	200	7.5	35	66	0	54	3.3	7.6	177	.64
06...	0540	5.0	205	7.4	40	68	0	56	4.3	7.8	43	.64
06...	0545	3.6	215	7.5	40	73	0	60	3.7	8.2	46	.64
06...	0550	2.9	210	7.4	35	74	0	61	4.7	8.3	26	.67
06...	1750	8.4	170	6.8	60	77	0	63	20	8.6	219	.29
06...	1755	16	144	6.9	70	66	0	54	13	7.6	282	.32
06...	1800	24	160	6.5	85	120	0	98	61	14	161	.02
06...	1810	28	112	6.7	90	50	0	41	16	3.6	121	.09
06...	1815	52	110	6.5	70	46	0	38	23	2.3	2	.09
06...	1820	42	94	6.7	35	38	0	31	12	2.0	178	.10
06...	1825	29	79	6.9	30	48	0	39	9.7	1.7	81	.06
06...	1830	24	75	6.9	40	28	0	23	5.6	1.4	49	.02
20...	1505	4.9	260	7.0	55	120	0	98	19	10	119	.76
20...	1510	10	220	7.0	70	98	0	80	16	9.8	281	.45
20...	1515	30	215	7.5	50	89	0	73	4.5	10	121	.30
20...	1520	64	290	7.4	30	110	0	90	7.0	11	45	.60
20...	1525	69	293	7.3	30	110	0	90	8.8	13	21	.62
20...	1535	50	280	7.3	35	110	0	90	8.8	12	26	.66
20...	1550	20	280	7.3	40	110	0	90	8.8	11	44	.66
20...	1620	9.5	365	7.4	45	140	0	110	8.9	15	43	.53
28...	2000	5.2	455	7.2	90	190	0	160	19	21	66	.09
28...	2005	9.3	270	7.1	80	110	0	90	14	12	117	.23
28...	2010	20	720	7.7	45	330	0	270	11	36	10	.16
28...	2015	27	725	7.7	50	330	0	270	11	36	7	.24
28...	2020	21	715	7.7	40	320	0	260	10	35	12	.13
28...	2025	15	730	7.7	45	320	0	260	10	35	14	.11
28...	2030	10	730	7.7	40	330	0	270	11	35	11	.27
28...	2035	7.4	720	7.7	40	330	0	270	11	35	12	.33

05573600 SPRING CREEK TRIBUTARY AT DECATUR, IL--Continued

WATER QUALITY DATA, AUGUST 1977

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
AUG							
06...	4.3	4.4	19	.28	260	0	10
06...	2.1	2.3	10	.31	160	0	20
06...	1.0	1.7	7.3	.12	160	0	40
06...	.95	1.6	7.1	.14	20	0	20
06...	.61	1.3	5.5	.10	70	0	10
06...	1.4	2.0	9.0	.24	260	0	20
06...	.97	1.6	7.1	.12	7	0	20
06...	1.1	1.8	7.8	.15	10	0	20
06...	4.0	4.3	19	.24	150	0	20
06...	3.4	3.7	16	.31	130	2	40
06...	3.2	3.2	14	.29	180	0	40
06...	7.4	7.5	33	.25	160	2	20
06...	2.1	2.2	9.7	.22	120	3	20
06...	3.6	3.7	16	.23	190	0	20
06...	3.9	4.0	18	.23	60	2	10
06...	3.8	3.8	17	.20	30	2	30
20...	1.5	2.3	10	.30	100	2	40
20...	2.8	3.3	14	.58	90	0	60
20...	.81	1.1	4.9	.15	100	6	130
20...	.63	1.2	5.4	.14	120	0	10
20...	.63	1.3	5.5	.14	110	0	<10
20...	.89	1.6	6.9	.15	90	0	10
20...	.86	1.5	6.7	.16	90	0	10
20...	.63	1.2	5.1	.16	120	0	20
28...	1.7	1.8	7.9	.16	140	0	20
28...	3.8	4.0	18	.28	120	0	20
28...	.55	.71	3.1	.03	160	0	10
28...	.45	.69	3.1	.04	180	0	20
28...	.49	.62	2.7	.05	160	22	10
28...	.61	.72	3.2	.05	160	0	<10
28...	.62	.89	3.9	.05	180	0	10
28...	.93	1.3	5.6	.05	160	2	10

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)
AUG							
06...	120	3500	260	200	.0	4.2	0
06...	170	6500	470	240	.0	3.9	0
06...	210	6900	250	310	.0	4.5	0
06...	23	2500	45	80	.0	4.3	0
06...	19	2600	46	70	.0	4.2	0
06...	24	2500	43	80	.0	5.2	0
06...	20	2200	31	90	.0	4.0	0
06...	24	3300	43	100	.0	3.6	0
06...	45	2200	180	100	.0	5.0	0
06...	160	9700	520	280	.3	5.1	0
06...	120	6200	290	250	.2	4.7	1
06...	90	6000	510	170	.0	4.5	0
06...	80	5100	420	160	.0	5.2	0
06...	40	2200	170	70	.2	5.0	0
06...	50	3800	300	90	.0	4.3	0
06...	80	5400	460	160	.0	4.0	0
20...	120	3500	30	220	.0	14	2
20...	180	9000	750	280	.0	16	6
20...	120	4400	30	140	.0	10	2
20...	24	2300	40	90	.0	12	2
20...	18	2000	45	80	.0	15	1
20...	17	2000	64	80	.0	17	1
20...	19	2800	64	80	.0	18	1
20...	14	2000	77	110	.0	15	0
28...	44	2300	70	240	.0	6.1	3
28...	110	3300	81	220	.0	5.9	7
28...	8	440	7	250	.0	5.9	5
28...	5	440	7	240	.0	6.0	1
28...	10	540	45	250	.1	6.1	6
28...	8	540	26	260	.0	5.8	12
28...	7	400	17	240	.0	5.7	2
28...	9	530	23	240	.0	5.8	56

05574500 FLAT BRANCH NEAR TAYLORVILLE, IL

LOCATION.--Lat 39°33'14", long 89°15'12", in SE¼SE¼ sec.24, T.13 N., R.2 W., Christian County, Hydrologic Unit 07130007, on right bank at downstream side of bridge on old State Highway 29, 1.4 mi (2.3 km) east of Taylorville and 1.8 mi (2.9 km) upstream from mouth.

DRAINAGE AREA.--276 mi² (715 km²).

PERIOD OF RECORD.--July 1949 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 562.44 ft (171.431 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--28 years, 196 ft³/s (5.551 m³/s), 9.64 in/yr (245 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s (368 m³/s) June 29, 1957, gage height, 19.55 ft (5.959 m); no flow at times in 1953-56, 1960, 1964, 1966, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,210 ft³/s (90.9 m³/s) May 7, gage height, 13.26 ft (4.042 m); minimum daily, 0.30 ft³/s (0.008 m³/s) Jan. 18-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	1.8	1.7	.68	.33	19	196	42	25	23	53	54
2	.76	1.4	1.6	.54	.33	16	106	56	23	22	30	39
3	.76	2.2	1.6	.47	.33	14	82	73	22	18	16	62
4	.76	2.5	1.6	.43	.33	33	56	70	20	17	9.9	98
5	1.4	2.2	1.6	.40	.33	85	46	627	19	16	6.9	88
6	5.4	1.9	1.9	.39	.33	74	40	1890	19	14	5.4	82
7	3.3	1.9	2.2	.37	.33	43	30	3060	18	11	18	49
8	8.5	1.7	2.2	.36	.33	28	24	2370	19	26	145	37
9	7.7	1.4	2.1	.35	.33	21	21	1510	21	64	101	28
10	5.1	1.5	2.1	.35	.50	20	18	947	24	22	58	23
11	3.6	1.6	1.9	.35	4.0	18	16	612	23	14	47	20
12	2.7	1.6	1.9	.35	9.0	33	15	348	24	19	32	18
13	2.5	1.6	1.9	.35	25	95	13	236	25	8.8	23	27
14	1.9	1.6	1.9	.40	40	108	11	190	34	7.0	15	198
15	1.7	1.6	1.8	.50	35	65	11	157	44	5.7	11	290
16	1.5	1.8	1.8	.40	22	37	10	133	33	4.7	12	127
17	1.4	2.1	1.8	.33	17	25	9.5	113	27	3.8	85	77
18	1.2	2.2	1.9	.30	15	26	8.3	96	23	3.6	108	57
19	1.4	2.3	2.1	.30	14	41	7.4	79	20	4.0	39	48
20	1.5	2.2	2.3	.30	13	39	7.1	68	18	3.6	21	44
21	1.5	2.2	1.9	.30	12	28	8.6	62	16	4.8	16	39
22	1.4	2.1	1.6	.30	12	27	8.3	56	16	62	156	34
23	2.5	2.2	1.5	.30	30	32	10	51	15	15	361	32
24	4.0	2.2	1.2	.33	122	36	111	45	18	5.4	155	32
25	4.2	2.3	1.2	.36	156	32	222	42	18	4.4	58	35
26	3.8	2.5	1.2	.40	83	25	147	41	18	109	36	41
27	3.3	2.8	1.2	.40	54	23	100	40	19	89	26	35
28	1.7	2.4	1.3	.38	29	105	72	37	31	5.5	23	31
29	1.6	2.1	1.2	.35	---	327	57	34	48	3.4	156	27
30	2.5	1.9	1.1	.33	---	383	47	31	30	6.0	236	28
31	2.6	---	1.0	.33	---	377	---	28	---	54	106	---
TOTAL	82.86	59.8	52.3	11.70	695.47	2235	1510.2	13144	710	665.7	2165.2	1800
MEAN	2.67	1.99	1.69	.38	24.8	72.1	50.3	424	23.7	21.5	69.8	60.0
MAX	8.5	2.8	2.3	.68	156	383	222	3060	48	109	361	290
MIN	.68	1.4	1.0	.30	.33	14	7.1	28	15	3.4	5.4	18
CFSM	.01	.007	.006	.001	.09	.26	.18	1.54	.09	.08	.25	.22
IN.	.01	.01	.01	.00	.09	.30	.20	1.77	.10	.09	.29	.24

CAL YR 1976 TOTAL 42646.44 MEAN 117 MAX 3060 MIN .00 CFSM .42 IN 5.75
WTR YR 1977 TOTAL 23132.23 MEAN 63.4 MAX 3060 MIN .30 CFSM .23 IN 3.12

05575800 HORSE CREEK AT PAWNEE, IL

LOCATION.--Lat 39°34'56", long 89°34'20", in NE¼NE¼ sec.18, T.13 N., R.4 W., Sangamon County, Hydrologic Unit 07130007, on left bank at upstream side of bridge on County Highway 28, 0.3 mi (0.5 km) south of Pawnee and 0.7 mi (1.1 km) upstream from Henkle Branch.

DRAINAGE AREA.--52.2 mi² (135.2 km²).

PERIOD OF RECORD.--October 1967 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 564.81 ft (172.154 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--10 years, 42.0 ft³/s (1.189 m³/s), 10.93 in/yr (278 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft³/s (142 m³/s) May 28, 1968, gage height, 16.06 ft (4.895 m), from floodmarks, from rating curve extended above 1,700 ft³/s (48.1 m³/s); maximum gage height, 17.70 ft (5.395 m) Apr. 21, 1973; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 5	0615	2510	71.1	15.69	4.782	May 6	1115	*3290	93.2	*16.45	5.014

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	3.0	6.1	.90	1.7	34	.04	.08
2	.00	.00	.00	.00	.00	2.5	12	2.5	1.6	20	.00	.00
3	.00	.00	.00	.00	.00	3.0	7.4	2.6	1.4	11	.00	.00
4	.00	.00	.00	.00	.00	4.4	5.6	28	1.4	8.7	.00	38
5	.00	.00	.00	.00	.00	2.4	6.3	1380	1.3	6.5	.00	30
6	.00	.00	.00	.00	.00	1.4	3.9	2210	1.4	5.2	.00	1.5
7	.00	.00	.00	.00	.00	1.3	3.1	667	1.2	4.2	1.3	.75
8	.00	.00	.00	.00	.00	1.5	2.7	140	1.4	3.3	.61	.40
9	.00	.00	.00	.00	.00	2.2	2.4	86	2.2	2.7	.37	.10
10	.00	.00	.00	.00	.10	2.9	2.2	56	5.6	2.3	4.8	.00
11	.00	.00	.00	.00	5.0	2.6	2.1	36	2.8	2.1	2.2	.00
12	.00	.00	.00	.00	12	3.7	1.8	23	1.4	2.1	1.4	.00
13	.00	.00	.00	.00	20	5.4	1.6	16	1.5	1.7	.85	1.1
14	.00	.00	.00	.00	17	4.8	1.5	13	1.8	1.4	.65	1.4
15	.00	.00	.00	.00	12	3.1	1.5	11	1.4	1.1	.55	1.2
16	.00	.00	.00	.00	9.0	2.3	1.4	8.1	.71	1.4	.40	.60
17	.00	.00	.00	.00	6.6	1.9	1.4	7.4	.52	2.8	.30	.25
18	.00	.00	.00	.00	4.5	2.3	1.2	6.9	.38	1.2	.25	.35
19	.00	.00	.00	.00	3.5	3.7	1.4	5.7	.29	.78	.20	1.8
20	.00	.00	.00	.00	2.8	2.6	1.7	5.6	.16	.57	.15	.35
21	.00	.00	.00	.00	2.3	2.3	1.7	6.1	.10	.41	.15	.05
22	.00	.00	.00	.00	2.0	4.5	1.5	4.7	.21	2.3	.09	.00
23	.00	.00	.00	.00	10	6.5	2.2	3.9	.51	1.4	.09	.00
24	.00	.00	.00	.00	30	3.8	3.3	3.6	.73	.67	.54	.00
25	.00	.00	.00	.00	25	2.6	2.1	3.2	.69	.51	.44	.00
26	.00	.00	.00	.00	15	2.1	1.5	3.1	.91	1.6	.27	.00
27	.00	.00	.00	.00	10	2.3	1.2	2.9	177	.91	.12	.00
28	.00	.00	.00	.00	6.0	60	1.0	2.7	586	.43	.07	.00
29	.00	.00	.00	.00	---	30	.85	2.7	81	.14	.17	.00
30	.00	.00	.00	.00	---	18	.75	2.5	45	.00	.14	.00
31	.00	---	.00	.00	---	10	---	2.0	---	.21	.18	---
TOTAL	.00	.00	.00	.00	192.80	199.1	83.40	4743.10	922.31	121.63	16.33	77.93
MEAN	.000	.000	.000	.000	6.89	6.42	2.78	153	30.7	3.92	.53	2.60
MAX	.00	.00	.00	.00	30	60	12	2210	586	34	4.8	38
MIN	.00	.00	.00	.00	.00	1.3	.75	.90	.10	.00	.00	.00
CFSM	.000	.000	.000	.000	.13	.12	.05	2.93	.59	.08	.01	.05
IN.	.00	.00	.00	.00	.14	.14	.06	3.38	.66	.09	.01	.06

CAL YR 1976 TOTAL 4830.45 MEAN 13.2 MAX 378 MIN .00 CFSM .25 IN 3.44
WTR YR 1977 TOTAL 6356.60 MEAN 17.4 MAX 2210 MIN .00 CFSM .33 IN 4.53

05575830 BRUSH CREEK NEAR DIVERNON, IL

LOCATION.--Lat 39°35'50", long 89°37'48", in SE¼SE¼ sec.3, T.13 N., R.5 W., Sangamon County, Hydrologic Unit 07130007, on left bank at downstream side of bridge on county road, 0.5 mi (0.8 km) north of State Highway 104 and 2.7 mi (4.3 km) northeast of Divernon.

DRAINAGE AREA.--32.4 mi² (83.9 km²).

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Datum of gage is 565.14 ft (172.255 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,360 ft³/s (66.8 m³/s) May 6, 1977, gage height, 15.52 ft (4.730 m); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 5	0745	928	26.3	12.80	3.901
May 6	1100	*2360	66.8	*15.52	4.730
May 6	2000	2090	59.2	15.03	4.581
June 27	1215	677	19.2	9.75	2.972

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	3.0	.00	.00	.00	4.0	8.3	2.4	1.7	27	.34	.57
2	.00	1.0	.00	.00	.00	3.0	19	5.9	2.2	15	.32	.18
3	.00	.43	.00	.00	.00	3.3	7.6	3.8	2.0	11	.05	.01
4	.00	.19	.00	.00	.00	4.0	7.7	50	2.4	8.5	.00	.12
5	.94	.11	.00	.00	.00	3.5	6.9	532	2.8	6.5	.00	1.6
6	11	.08	.00	.00	.00	3.0	4.6	1670	2.3	5.6	.05	.52
7	1.5	.03	.00	.00	.00	2.7	4.0	637	1.5	4.8	5.3	.06
8	.23	.00	.00	.00	.00	2.5	3.4	96	2.8	4.1	13	.00
9	.03	.09	.05	.00	.00	2.2	3.1	59	6.0	3.5	1.5	.00
10	.00	.12	.10	.00	.05	2.1	2.9	40	3.5	2.9	3.5	.00
11	.00	.18	.04	.00	2.0	2.3	2.7	26	2.0	3.6	1.1	.00
12	.00	.46	.02	.00	9.0	60	2.2	18	2.2	2.9	.85	.00
13	.00	.33	.00	.00	16	13	2.1	13	3.0	2.3	.57	3.3
14	.00	.09	.00	.00	14	7.0	2.0	11	2.3	1.7	.54	4.5
15	.00	.09	.20	.00	7.0	5.0	1.8	8.4	1.4	1.3	.47	4.9
16	.00	.00	.10	.00	4.5	3.6	1.5	5.9	.94	1.6	.42	5.7
17	.00	.00	.03	.00	3.2	4.3	1.3	4.6	.64	5.2	.31	1.6
18	.00	.00	.00	.00	2.5	16	1.2	3.4	.64	1.2	.23	.77
19	.00	.00	.00	.00	2.0	6.2	1.7	2.8	.56	.85	.16	8.8
20	.00	.00	.00	.00	1.5	5.1	2.7	3.2	.48	.71	.22	1.1
21	.00	.00	.00	.00	1.2	4.8	1.9	2.4	.24	2.1	.27	.51
22	.00	.00	.00	.00	1.0	13	2.2	1.3	1.1	3.7	.12	.16
23	.41	.00	.00	.00	7.0	8.8	3.4	.62	.72	.90	.18	.06
24	15	.00	.00	.00	20	5.7	5.8	.55	.64	.57	.86	.27
25	5.6	.00	.00	.00	18	4.5	2.7	.54	.40	.60	.72	.24
26	1.3	.09	.00	.00	10	3.7	2.1	.68	.48	.80	.68	.06
27	.53	.61	.00	.00	7.0	5.0	1.8	.86	374	.63	.44	.00
28	.18	.21	.05	.00	5.0	130	1.6	1.2	136	.51	.40	.00
29	2.2	.05	.00	.00	---	40	1.5	1.9	43	.37	2.7	.00
30	2.7	.01	.00	.00	---	17	1.3	1.5	28	.23	1.5	.00
31	3.4	---	.00	.00	---	10	---	1.7	---	.39	1.2	---
TOTAL	45.02	7.17	.59	.00	130.95	395.3	111.0	3205.65	625.94	121.06	38.00	35.03
MEAN	1.45	.24	.019	.000	4.68	12.8	3.70	103	20.9	3.91	1.23	1.17
MAX	15	3.0	.20	.00	20	130	19	1670	374	27	13	8.8
MIN	.00	.00	.00	.00	.00	2.1	1.2	.54	.24	.23	.00	.00
CFSM	.05	.007	.001	.000	.14	.40	.11	3.18	.65	.12	.04	.04
IN.	.05	.01	.00	.00	.15	.45	.13	3.68	.72	.14	.04	.04

CAL YR 1976 TOTAL 3650.45 MEAN 9.97 MAX 312 MIN .00 CFSM .31 IN 4.19
WTR YR 1977 TOTAL 4715.71 MEAN 12.9 MAX 1670 MIN .00 CFSM .40 IN 5.41

05576000 SOUTH FORK SANGAMON RIVER NEAR ROCHESTER, IL

LOCATION.--Lat 39°44'32", long 89°34'02", in NE¼NW¼ sec.20, T.15 N., R.4 W., Sangamon County, Hydrologic Unit 07130007, on right bank at city of Springfield dam, 100 ft (30 m) downstream from Horse Creek and 1.7 mi (2.7 km) southwest of Rochester.

DRAINAGE AREA.--867 mi^2 (2,246 km^2).

PERIOD OF RECORD.--July 1949 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 511.30 ft (155.844 m) above mean sea level. Prior to Oct. 1, 1964, water-stage recorder, and Oct. 1, 1964, to Apr. 12, 1966, nonrecording gage, at site 2.2 mi (3.5 km) downstream at same datum. Auxiliary water-stage recorder at site 1.2 mi (1.9 km) downstream. May 19, 1950, to Apr. 29, 1975, auxiliary nonrecording gage at same site. Prior to May 19, 1950, auxiliary nonrecording gage at site 6.2 mi (10.0 km) downstream.

REMARKS.--Records fair except those for winter periods, which are poor. Beginning Apr. 14, 1955, diversion above station for Springfield municipal supply during some years. Occasional regulation caused by operation of gate at diversion dam. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--28 years, 556 ft^3/s (15.75 m^3/s), 8.71 in/yr (221 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,100 ft^3/s (513 m^3/s) July 1, 1957, site then in use; maximum gage height, 30.01 ft (9.147 m) June 18, 1970; minimum daily discharge, 0.07 ft^3/s) (0.002 m^3/s) Dec. 6, 8, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,820 ft^3/s (250 m^3/s) May 7; maximum gage height, 27.05 ft (8.245 m) May 7; minimum daily discharge, 0.07 ft^3/s (0.002 m^3/s) Dec. 6, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	.36	.24	1.5	8.0	71	440	75	115	458	65	127
2	1.6	.27	.24	3.5	8.4	33	387	35	101	383	56	133
3	1.6	.36	.24	4.5	8.8	3.1	373	1.4	90	357	77	101
4	1.6	.68	.14	5.0	9.2	2.5	174	112	82	319	73	98
5	1.1	.86	.09	5.5	9.6	2.4	136	1160	77	215	54	580
6	.94	1.1	.07	.69	10	2.4	111	5520	72	171	71	437
7	.94	1.2	.22	.48	10	52	80	8240	66	135	313	223
8	.94	1.4	.07	.58	10	85	74	6640	63	111	135	148
9	.94	.85	.10	.58	10	20	36	5490	67	107	203	117
10	1.3	.58	.10	1.5	6.1	2.1	25	4950	242	102	108	89
11	1.4	.58	.14	2.5	4.7	1.3	9.2	4120	369	108	174	71
12	1.4	.72	.14	3.4	5.8	44	2.2	2940	352	139	195	60
13	1.4	.82	.10	5.4	20	151	2.0	1700	221	98	127	60
14	1.7	.75	.14	5.8	17	97	2.0	707	176	88	144	63
15	1.9	.71	.10	6.2	30	99	8.3	250	176	69	227	88
16	2.1	.72	.14	6.6	20	96	1.8	199	190	52	349	191
17	11	.69	.14	7.0	16	91	1.8	191	187	42	415	254
18	15	.70	.14	7.4	13	46	1.4	198	164	60	270	236
19	.70	.70	.19	7.8	10	15	.81	245	132	59	170	203
20	.18	.49	.10	8.0	8.0	29	.24	231	115	31	140	204
21	.15	.55	.10	8.2	6.4	11	.39	234	95	33	118	187
22	.15	.58	.14	8.2	5.4	17	4.4	212	84	23	102	124
23	.21	.55	.19	8.2	20	20	12	189	80	20	120	112
24	.32	.52	.19	8.2	100	11	76	174	76	68	146	87
25	.33	.58	.19	6.0	125	7.9	61	220	80	80	127	74
26	.15	.58	.31	4.5	136	.46	65	173	74	55	157	77
27	.15	.63	.48	3.5	126	.32	82	163	428	111	135	72
28	.16	.63	.37	2.8	92	120	55	168	1180	288	86	67
29	.27	.50	.24	3.5	---	466	74	170	1080	361	52	66
30	.32	.36	.48	6.0	---	481	75	154	558	185	57	64
31	.41	---	.48	7.8	---	430	---	131	---	107	87	---
TOTAL	51.96	20.02	5.93	150.03	845.4	2507.48	2370.54	44992.4	6792	4435	4553	4413
MEAN	1.68	.67	.19	4.84	30.2	80.9	79.0	1451	226	143	147	147
MAX	15	1.4	.48	8.2	136	481	440	8240	1180	458	415	580
MIN	.15	.27	.07	.48	4.7	.32	.24	1.4	63	20	52	60
MEAN†	8.75	9.52	10.0	8.44	84.0	186	167	1459	226	143	147	147
CFSM†	.01	.01	.01	.01	.10	.21	.19	1.68	.26	.17	.17	.17
IN.†	.01	.01	.01	.01	.10	.24	.21	1.94	.29	.19	.20	.19

CAL YR 1976 TOTAL 85982.36 MEAN 235 MAX 2490 MIN .07 MEAN† 237 CFSM† .27 IN† 3.68
WTR YR 1977 TOTAL 71136.76 MEAN 195 MAX 8240 MIN .07 MEAN† 216 CFSM† .25 IN† 3.39

† Adjusted for pumpage into Lake Springfield above gage.

05577500 SPRING CREEK AT SPRINGFIELD, IL

LOCATION.--Lat 39°48'57", long 89°41'57", in NW¼NE¼ sec.30, T.16 N., R.5 W., Sangamon County, Hydrologic Unit 07130008, on right bank at downstream side of bridge on State Highway 125 in Springfield, 0.8 mi (1.3 km) downstream from Chicago and North Western Railroad bridge and 1.9 mi (3.1 km) west of intersection of Jefferson Street and MacArthur Boulevard.

DRAINAGE AREA.--107 mi² (277 km²).

PERIOD OF RECORD.--January to September 1948, December 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 524.65 ft (159.913 m) above mean sea level. Prior to Dec. 22, 1948, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--28 years (water years 1950-77, 63.5 ft³/s (1.798 m³/s), 8.06 in/yr (205 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,750 ft³/s (191 m³/s) Mar. 30, 1960, gage height, 12.70 ft (3.871 m); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 6	1800	*5780	164	*12.54	3.822	Sept. 4	1945	984	27.9	9.08	2.768

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.3	.34	.00	.00	17	40	15	21	11	4.5	2.1
2	.00	.99	.17	.00	.00	16	90	13	20	9.7	3.8	2.4
3	.00	.70	.05	.00	.00	19	54	13	19	8.7	3.6	1.2
4	.00	.67	.00	.00	.00	19	35	40	17	8.3	4.2	197
5	5.9	.63	.00	.00	.00	19	36	595	17	8.0	5.3	81
6	10	.58	.00	.00	.00	18	33	3050	17	7.5	50	12
7	.96	.51	.00	.00	.00	16	31	1830	16	7.2	71	9.3
8	.57	.39	.00	.00	.00	15	29	569	20	10	43	7.8
9	.38	.42	.00	.00	.00	15	26	203	21	28	19	7.3
10	.09	.39	.01	.00	1.0	14	24	154	56	12	6.3	6.8
11	.00	.29	.02	.00	10	16	23	133	23	8.1	5.0	6.5
12	.00	.18	.01	.00	25	130	22	119	23	8.1	2.6	9.6
13	.00	.10	.00	.00	35	58	21	100	24	8.4	2.0	19
14	.00	.02	.00	.00	20	28	20	86	35	7.2	1.7	14
15	.00	.01	.00	.00	15	21	19	74	20	6.7	1.5	25
16	.00	.01	.00	.00	10	19	18	61	15	8.3	1.6	16
17	.00	.01	.00	.00	7.1	28	18	53	13	5.8	1.5	12
18	.00	.01	.00	.00	5.8	108	18	48	12	5.2	1.2	10
19	.00	.01	.00	.00	5.2	48	17	42	11	4.9	1.0	9.7
20	.54	.00	.05	.00	5.0	31	17	39	11	7.8	1.0	8.3
21	.57	.00	.03	.00	5.0	29	17	38	9.8	7.8	2.3	8.1
22	.31	.00	.00	.00	8.9	68	18	35	13	6.9	1.5	8.0
23	1.9	.00	.00	.00	38	43	20	30	11	4.8	1.2	7.8
24	13	.00	.00	.00	54	29	35	28	11	5.3	1.6	10
25	1.3	.00	.00	.00	26	24	30	267	10	5.0	1.1	7.8
26	.77	.71	.00	.00	20	22	24	106	9.6	4.4	.97	7.6
27	.50	3.3	.00	.00	20	28	21	48	9.6	4.1	.93	7.4
28	.28	1.4	.00	.00	18	175	19	40	13	4.2	5.8	7.3
29	.12	.95	.00	.00	---	142	17	37	14	4.0	7.9	7.0
30	3.4	.55	.00	.00	---	64	16	27	12	3.6	3.2	23
31	2.8	---	.00	.00	---	51	---	23	---	5.6	2.0	---
TOTAL	43.39	14.13	.68	.00	329.00	1330	808	7916	524.0	236.6	258.30	551.0
MEAN	1.40	.47	.022	.000	11.8	42.9	26.9	255	17.5	7.63	8.33	18.4
MAX	13	3.3	.34	.00	54	175	90	3050	56	28	71	197
MIN	.00	.00	.00	.00	.00	14	16	13	9.6	3.6	.93	1.2
CFSM	.01	.004	.000	.000	.11	.40	.25	2.38	.16	.07	.08	.17
IN.	.02	.00	.00	.00	.11	.46	.28	2.75	.18	.08	.09	.19

CAL YR 1976 TOTAL 14646.26 MEAN 40.0 MAX 932 MIN .00 CFSM .37 IN 5.09
WTR YR 1977 TOTAL 12011.10 MEAN 32.9 MAX 3050 MIN .00 CFSM .31 IN 4.18

05578500 SALT CREEK NEAR ROWELL, IL

LOCATION.--Lat 40°06'54", long 89°02'57", in NE¼SE¼ sec.11, T.19 N., R.1 E., De Witt County, Hydrologic Unit 07130009, on right bank at downstream side of highway bridge, 0.5 mi (0.8 km) upstream from State Highway 54, 0.8 mi (1.3 km) upstream from Illinois Central Gulf Railroad bridge and Ten Mile Creek, and 3.2 mi (5.1 km) northwest of Rowell.

DRAINAGE AREA.--335 mi^2 (868 km^2).

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 610.00 ft (185.928 m) above mean sea level (Corps of Engineers bench mark).

REMARKS.--Records good except those for winter periods and those for period of no gage-height record, Nov. 19 to Jan. 5, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--35 years, 237 ft^3/s (6.712 m^3/s), 9.61 in/yr (244 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,500 ft^3/s (694 m^3/s) May 16, 1968, gage height, 29.21 ft (8.903 m); minimum, 0.7 ft^3/s (0.020 m^3/s) Oct. 4, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft^3/s (37 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 8	1400	1410	39.9	18.58	5.663	Aug. 10	0300	*3520	99.7	*20.02	6.102

Minimum daily discharge, 4.5 ft^3/s (0.13 m^3/s) Jan. 16-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	12	6.8	5.0	4.6	45	293	56	99	45	35	153
2	7.7	15	6.4	4.9	4.8	43	365	118	86	39	27	132
3	7.7	20	6.2	4.8	4.8	44	327	148	78	32	23	114
4	6.9	15	6.0	4.8	4.8	54	301	164	72	29	20	107
5	8.6	11	6.0	4.8	4.6	61	281	274	67	26	66	95
6	28	11	5.8	4.8	4.6	59	237	758	66	26	767	82
7	28	11	5.6	4.7	4.6	51	198	1140	63	26	1210	75
8	21	9.4	5.4	4.6	4.6	47	173	1370	65	30	1790	67
9	16	9.9	5.2	4.6	5.0	43	153	1230	35	22	2880	64
10	11	10	5.0	4.6	6.0	43	137	926	52	20	3310	63
11	8.1	7.9	5.0	4.7	15	47	129	564	56	21	2390	58
12	15	6.9	5.0	4.9	35	86	121	409	54	99	1700	59
13	10	6.7	5.0	5.0	60	113	108	353	53	36	1080	192
14	9.9	5.6	5.0	5.0	50	120	106	326	49	20	686	269
15	9.2	6.0	5.0	4.8	40	93	101	303	44	16	530	417
16	6.7	6.3	5.0	4.5	34	76	96	269	42	93	445	828
17	6.5	7.5	5.0	4.5	30	66	86	223	40	58	446	790
18	4.6	7.7	5.0	4.5	28	125	81	208	39	54	263	637
19	5.6	8.1	5.0	4.5	26	144	82	181	43	51	246	536
20	12	8.3	5.0	4.5	25	149	67	177	44	41	239	545
21	16	9.0	5.0	4.6	25	123	75	165	40	48	250	345
22	16	9.0	5.6	4.8	27	125	78	150	39	54	243	186
23	7.9	8.0	5.0	5.0	60	121	96	138	42	51	229	202
24	7.3	7.0	5.0	5.0	100	128	96	127	41	42	217	250
25	5.2	7.5	5.0	4.8	80	133	110	120	43	39	206	241
26	6.9	8.2	5.0	4.6	70	118	86	116	41	37	198	247
27	8.1	10	5.0	4.6	60	105	70	123	44	32	290	246
28	10	8.8	5.4	4.6	52	219	72	121	54	27	283	239
29	11	7.8	5.4	4.6	---	461	66	138	54	37	235	228
30	15	7.2	5.2	4.6	---	450	60	149	48	37	201	275
31	19	---	5.0	4.6	---	388	---	127	---	88	110	---
TOTAL	353.7	277.8	165.0	146.3	865.4	3880	4251	10671	1593	1276	20613	7742
MEAN	11.4	9.26	5.32	4.72	30.9	125	142	344	53.1	41.2	665	258
MAX	28	20	6.8	5.0	100	461	365	1370	99	99	3310	828
MIN	4.6	5.6	5.0	4.5	4.6	43	60	56	35	16	20	58
CFSM	.03	.03	.02	.01	.09	.37	.42	1.03	.16	.12	1.99	.77
IN.	.04	.03	.02	.02	.10	.43	.47	1.18	.18	.14	2.29	.86

CAL YR 1976 TOTAL 58602.4 MEAN 160 MAX 2470 MIN 4.6 CFSM .48 IN 6.51
WTR YR 1977 TOTAL 51834.2 MEAN 142 MAX 3310 MIN 4.5 CFSM .42 IN 5.76

05579500 LAKE FORK NEAR CORNLAND, IL

LOCATION.--Lat 39°57'00", long 89°23'10", in SW¼ sec.1, T.17 N., R.3 W., Logan County, Hydrologic Unit 07130009, near center of span on upstream side of bridge on State Highway 54, 100 ft (30 m) upstream from Illinois Central Gulf Railroad bridge, 2.0 mi (3.2 km) northeast of Cornland, 8 mi (13 km) downstream from Jones Fork, and 14 mi (23 km) upstream from mouth.

DRAINAGE AREA.--214 mi² (554 km²).

PERIOD OF RECORD.--January 1948 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 555.06 ft (169.182 m) above mean sea level. Prior to Sept. 6, 1973, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--29 years, 139 ft³/s (3.936 m³/s), 8.82 in/yr (224 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,120 ft³/s (173 m³/s) June 23, 1974, gage height, 22.53 ft (6.867 m), from rating curve extended above 3,900 ft³/s (110 m³/s); minimum, 1.3 ft³/s (0.037 m³/s) Sept. 14-17, 19, 24, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1943 reached a stage of 23.4 ft (7.13 m), from floodmarks, discharge, 29,000 ft³/s (821 m³/s), by contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 8	0030	*2340	66.3	*17.00	5.182	Aug. 9	Unknown	1320	37.4	14.08	4.292
July 13	1530	1200	34.0	13.46	4.103						

Minimum daily discharge, 3.8 ft³/s (0.11 m³/s) Jan. 17-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	6.0	4.0	4.0	4.0	31	131	120	85	70	55	126
2	4.9	6.6	4.0	4.0	4.2	26	222	247	81	56	47	112
3	5.2	5.2	4.0	4.0	4.2	32	197	335	75	50	41	101
4	4.9	4.9	4.0	4.0	4.2	35	168	312	71	46	38	94
5	5.5	4.9	4.0	4.0	4.1	35	150	1010	70	41	41	91
6	8.3	4.9	4.0	4.0	4.0	31	122	1650	69	39	549	83
7	6.6	4.9	4.2	4.0	4.0	31	108	2160	64	36	1130	76
8	5.2	4.4	4.2	4.0	4.0	31	94	2150	66	36	1230	70
9	4.9	5.2	4.1	4.0	4.3	32	88	1260	64	35	1250	66
10	4.9	4.9	4.0	4.0	5.0	31	84	723	61	31	800	61
11	4.7	4.9	4.0	4.0	8.0	29	77	577	61	32	500	57
12	4.4	4.7	4.0	4.2	13	58	72	486	61	692	400	57
13	4.2	4.9	4.0	4.2	25	60	69	421	58	1180	350	175
14	4.2	5.2	4.0	4.2	24	46	68	367	55	843	300	218
15	4.2	5.2	4.0	4.1	19	39	64	321	52	367	270	219
16	4.2	4.9	4.0	3.9	16	35	59	279	51	322	260	226
17	4.2	5.2	4.0	3.8	14	37	57	249	50	401	230	191
18	4.4	5.5	4.0	3.8	12	87	55	223	48	270	210	170
19	4.9	5.7	4.0	3.8	11	77	54	201	46	194	190	152
20	4.9	4.7	4.0	3.8	10	65	53	185	46	156	180	135
21	4.9	5.7	4.5	3.9	10	57	51	172	43	135	250	120
22	4.7	6.3	5.0	4.1	14	61	52	157	45	117	600	111
23	5.2	4.7	4.5	4.2	83	65	141	142	45	96	450	104
24	6.0	5.2	4.2	4.2	87	61	422	133	45	88	336	122
25	6.6	5.7	4.1	4.1	52	55	323	145	44	70	261	141
26	5.5	6.0	4.1	4.0	40	50	250	129	43	61	210	124
27	4.7	6.9	4.0	4.0	36	49	204	118	45	55	184	110
28	4.4	5.5	4.0	4.0	33	183	174	111	103	50	163	98
29	4.7	4.9	4.0	4.0	---	326	145	104	121	46	203	93
30	6.0	4.2	4.5	4.0	---	214	129	96	87	44	167	162
31	6.9	---	4.1	4.0	---	159	---	90	---	74	145	---
TOTAL	159.2	157.9	127.5	124.3	549.0	2128	3883	14673	1855	5725	11048	3665
MEAN	5.14	5.26	4.11	4.01	19.6	68.6	129	473	61.8	185	356	122
MAX	8.3	6.9	5.0	4.2	87	326	422	2160	121	1180	1250	226
MIN	4.2	4.2	4.0	3.8	4.0	26	51	90	43	31	38	57
CFSM	.02	.03	.02	.02	.09	.32	.60	2.21	.29	.86	1.66	.57
IN.	.03	.03	.02	.02	.10	.37	.67	2.55	.32	1.00	1.92	.64

CAL YR 1976 TOTAL 38721.2 MEAN 106 MAX 1[illegible]10 MIN 4.0 CFSM .50 IN 6.73
WTR YR 1977 TOTAL 44094.9 MEAN 121 MAX 2160 MIN 3.8 CFSM .57 IN 7.67

05580000 KICKAPOO CREEK AT WAYNESVILLE, IL

LOCATION.--Lat 40°15'20", long 89°07'40", on line between secs.19 and 20, T.21 N., R.1 E., De Witt County, Hydrologic Unit 07130009, near center of span on downstream side of bridge, 0.5 mi (0.8 km) downstream from Rock Creek and 0.7 mi (1.1 km) north of Waynesville on Waynesville-McLean road.

DRAINAGE AREA.--227 mi^2 (588 km^2).

PERIOD OF RECORD.--January 1948 to current year.

REVISED RECORDS.--WSP 1175: 1849-49.

GAGE.--Water-stage recorder. Datum of gage is 620.24 ft (189.049 m) above mean sea level (Corps of Engineers bench mark). Prior to Sept. 8, 1970, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--29 years, 147 ft^3/s (4.163 m^3/s), 8.79 in/yr (223 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft^3/s (428 m^3/s) Apr. 22, 1973, gage height, 15.59 ft (4.752 m), from rating curve extended above 4,100 ft^3/s (116 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 0.1 ft^3/s (0.003 m^3/s) Oct. 23, 25, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,600 ft^3/s (45 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 6	1315	*5430	154	*13.31	4.057	Sept. 14	0815	1960	55.5	11.42	3.481

Minimum daily discharge, 3.3 ft^3/s (0.093 m^3/s) July 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	13	14	4.1	3.6	58	278	83	63	26	7.5	23
2	6.1	11	12	4.0	3.7	58	309	101	62	22	5.0	60
3	6.9	9.0	11	4.0	3.7	62	276	166	60	17	4.6	49
4	6.0	7.6	10	3.9	3.7	93	254	160	57	8.5	3.7	32
5	23	6.8	9.0	3.9	3.6	109	237	673	57	6.3	3.7	47
6	37	6.4	8.0	3.8	3.6	91	199	3930	62	6.0	320	30
7	20	10	7.4	3.8	3.6	81	170	2780	54	6.0	961	24
8	13	11	6.8	3.8	3.6	76	150	1470	60	6.1	587	23
9	13	8.2	6.4	3.7	4.0	84	140	885	65	20	533	18
10	12	6.2	6.0	3.7	6.0	83	140	689	60	23	290	17
11	8.3	5.3	5.8	3.7	60	76	130	563	50	12	239	15
12	5.4	5.6	5.6	3.7	56	68	130	478	45	7.6	318	15
13	5.0	6.2	5.2	3.7	40	118	124	422	40	30	172	1090
14	8.0	8.2	4.9	3.7	36	63	123	372	36	31	112	1470
15	10	9.1	4.9	3.7	32	122	118	331	34	25	83	779
16	12	5.9	4.9	3.5	31	147	112	286	34	15	127	735
17	11	5.1	5.2	3.5	30	124	110	254	29	25	106	490
18	12	7.3	6.0	3.5	29	262	105	224	59	16	69	410
19	13	6.8	5.6	3.5	28	236	102	199	45	12	55	396
20	11	6.5	5.0	3.5	27	207	106	182	35	13	49	333
21	11	8.7	4.7	3.5	27	184	110	160	28	22	46	275
22	11	9.5	4.5	3.6	27	208	105	142	27	25	61	239
23	12	8.0	4.5	3.7	100	247	104	111	27	13	43	212
24	13	7.0	4.4	3.7	150	224	105	102	30	9.6	38	303
25	11	9.1	4.3	3.7	130	185	105	95	29	7.3	31	314
26	9.5	12	4.2	3.6	100	170	101	94	27	5.2	28	231
27	13	16	4.2	3.6	75	160	97	87	25	4.0	25	197
28	9.0	19	4.2	3.6	63	370	94	84	24	3.3	23	167
29	9.0	23	4.2	3.6	---	632	90	83	27	7.7	30	146
30	12	16	4.4	3.6	---	440	84	76	28	23	31	142
31	15	---	4.3	3.6	---	323	---	71	---	17	27	---
TOTAL	364.3	283.5	191.6	114.5	1080.1	5361	4308	15353	1279	464.6	4428.5	8282
MEAN	11.8	9.45	6.18	3.69	38.6	173	144	495	42.6	15.0	143	276
MAX	37	23	14	4.1	150	632	309	3930	65	31	961	1470
MIN	5.0	5.1	4.2	3.5	3.6	58	84	71	24	3.3	3.7	15
CFSM	.05	.04	.03	.02	.17	.76	.63	2.18	.19	.07	.63	1.22
IN.	.06	.05	.03	.02	.18	.88	.71	2.52	.21	.08	.73	1.36

CAL YR 1976 TOTAL 48362.0 MEAN 132 MAX 3440 MIN 2.0 CFSM .58 IN 7.93
WTR YR 1977 TOTAL 41510.1 MEAN 114 MAX 3930 MIN 3.3 CFSM .50 IN 6.80

05580760 SUGAR CREEK BELOW FRANKLIN AVENUE AT NORMAL, IL

LOCATION.--Lat 40°29'46", long 88°59'29", in SW¼NE¼ sec.33, T.24 N., R.2 E., McLean County, Hydrologic Unit 07130009, at center of downstream side of footbridge below Franklin Avenue, in Normal, and 0.2 mi (0.3 km) above junction with North Branch Sugar Creek.

DRAINAGE AREA.--9.58 mi² (24.81 km²).

PERIOD OF RECORD.--Water year 1975 to May 1977.

COOPERATION.--Most data for ammonia nitrogen, suspended solids, dissolved solids, and biochemical oxygen demand were furnished by Bloomington-Normal Sanitary District and were reviewed by U.S. Geological Survey.

WATER QUALITY DATA, OCTOBER 1976 TO MAY 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT												
19...	0530	.16	480	7.8	5.5	8.0	--	2.0	--	--	--	--
19...	0630	.16	450	7.7	5.5	8.0	--	.5	--	--	--	--
19...	0730	.25	740	7.6	5.5	7.5	--	4.0	--	--	--	--
19...	0830	.35	720	7.6	5.5	7.5	--	36	--	--	--	--
19...	0930	.25	630	7.6	6.0	8.0	--	32	--	--	--	--
19...	1030	.16	570	7.8	7.0	8.5	--	24	--	--	--	--
19...	1130	.16	560	8.1	12.0	9.5	--	16	--	--	--	--
29...	1110	.06	770	8.2	8.5	5.5	15.5	1.0	B12	B38	39	--
NOV												
23...	1110	.03	730	8.1	2.5	.8	13.0	2.0	2700	600	41	--
DEC												
14...	1115	.04	720	7.3	3.0	.5	12.6	5.0	<1	88	45	530
FEB												
08...	0955	--	710	7.4	-7.0	.5	8.9	2.0	--	--	55	428
08...	1115	--	730	7.4	-4.5	4.0	5.0	2.0	--	--	54	384
08...	1455	--	530	7.5	-1.5	5.5	8.3	2.0	--	--	86	244
09...	0915	--	620	7.2	1.0	3.5	9.0	1.0	--	--	56	436
09...	1155	--	620	7.2	5.0	7.0	7.3	3.0	--	--	53	423
09...	1315	--	620	7.0	5.5	9.5	7.1	15	--	--	49	544
09...	1525	--	1020	7.0	6.0	2.0	5.7	9.0	--	--	180	712
10...	0645	--	1210	7.4	2.5	.5	9.2	33	--	--	380	892
10...	0955	--	1420	7.4	6.0	2.0	11.0	39	--	--	350	904
10...	1155	--	1500	7.8	7.0	3.0	9.2	35	--	--	390	1000
10...	1305	--	1950	7.5	9.0	3.0	11.8	42	--	--	--	1320
10...	1440	11	2530	7.6	10.0	2.0	11.4	50	--	--	960	2050
28...	1110	.36	1200	7.8	1.5	3.5	12.8	17	B13000	4500	190	596
MAR												
24...	1140	3.2	600	8.2	9.0	11.0	12.6	3.0	B39	60	59	420
28...	1050	62	420	7.8	--	12.5	11.5	--	--	--	64	260
APR												
22...	1100	.70	680	8.1	13.5	15.0	10.9	2.0	540	590	52	464
MAY												
02...	1010	42	260	7.4	--	15.5	10.0	6.0	--	--	20	260
24...	1155	2.0	700	8.0	28.0	27.0	9.7	3.0	880	890	30	376

B Results based on colony count outside acceptable range (non-ideal colony count).

05580760 SUGAR CREEK BELOW FRANKLIN AVENUE AT NORMAL, IL--Continued

WATER QUALITY DATA, OCTOBER 1976 TO MAY 1977

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SUS-PENDED SOLIDS (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT												
19...	--	--	2	--	.89	--	--	--	--	--	.16	--
19...	--	--	2	--	.48	--	--	--	--	--	.07	--
19...	--	--	16	--	.23	--	--	--	--	--	.20	--
19...	--	--	27	--	3.5	--	--	--	--	--	.13	--
19...	--	--	4	--	4.2	--	--	--	--	--	.13	--
19...	--	--	3	--	3.8	--	--	--	--	--	.20	--
19...	--	--	2	--	2.9	--	--	--	--	--	.20	--
29...	--	--	30	1.1	.13	.30	.43	1.5	6.8	--	.14	6.9
NOV												
23...	--	--	5	1.1	.76	--	.55	1.7	7.3	--	.07	6.8
DEC												
14...	.72	.06	16	1.6	.44	--	.43	2.0	9.0	.05	.28	6.1
FEB												
08...	.58	--	6	--	.33	--	--	--	--	--	.33	--
08...	.52	--	4	--	.28	--	--	--	--	--	.36	--
08...	.33	--	18	--	.45	--	--	--	--	--	.36	7.3
09...	.59	--	1	--	.58	--	--	--	--	--	.14	--
09...	.58	--	2	--	.70	--	--	--	--	--	.14	--
09...	.74	--	3	--	2.3	--	--	--	--	--	.29	--
09...	.97	--	22	--	3.7	--	--	--	--	--	.29	--
10...	1.21	--	49	--	7.1	--	--	--	--	--	2.6	--
10...	1.23	--	25	--	6.9	--	--	--	--	--	2.6	--
10...	1.36	--	22	--	5.6	--	--	--	--	--	2.2	--
10...	1.80	--	170	--	8.3	--	--	--	--	--	--	--
10...	2.79	60.9	514	--	9.4	--	--	--	--	--	.88	70
28...	.81	.58	11	1.1	3.8	1.5	5.3	6.4	28	--	1.4	14
MAR												
24...	.57	3.63	30	3.4	1.6	--	--	--	--	--	.18	4.6
28...	.35	43.5	732	--	6.9	--	--	--	--	--	1.5	--
APR												
22...	.63	.88	8	2.0	.48	.72	1.2	3.2	14	--	.05	5.8
MAY												
02...	.35	29.5	880	--	1.8	--	--	--	--	--	.40	--
24...	.51	2.03	9	12	.42	--	--	--	--	--	.04	3.7

05580810 NORTH BRANCH SUGAR CREEK AT NORMAL, IL

LOCATION.--Lat 40°29'55", long 88°59'29", in SW¼NE¼ sec.33, T.24 N., R.2 E., McLean County, Hydrologic Unit 07130009, on right bank at downstream side of footbridge at Franklin Avenue, in Normal, and 0.2 mi (0.3 km) upstream from mouth.

DRAINAGE AREA.--5.70 mi² (14.76 km²).

PERIOD OF RECORD.--Water year 1975 to May 1977 (discontinued).

COOPERATION.--Most data for ammonia nitrogen, suspended solids, dissolved solids, and biochemical oxygen demand were furnished by Bloomington-Normal Sanitary District and were reviewed by U.S. Geological Survey.

WATER QUALITY DATA, OCTOBER 1976 TO MAY 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT												
19...	0540	.15	550	7.9	5.0	6.5	--	.5	--	--	--	--
19...	0640	.18	520	7.9	4.5	6.5	--	3.0	--	--	--	--
19...	0740	.18	850	7.8	5.5	7.0	--	35	--	--	--	--
19...	0840	.18	925	7.8	5.5	6.5	--	40	--	--	--	--
19...	0940	.18	950	7.4	6.0	8.0	--	38	--	--	--	--
19...	1040	.18	930	7.4	7.0	8.0	--	24	--	--	--	--
19...	1140	.15	940	8.2	12.0	8.5	--	76	--	--	--	--
29...	1010	.02	940	8.1	10.0	5.5	14.7	2.0	520	1850	59	--
NOV												
23...	0955	.01	490	8.2	2.0	.5	13.2	2.0	<1	44	40	--
DEC												
14...	0950	<.01	1700	8.4	4.0	.5	12.4	7.0	B22000	B20000	610	1008
FEB												
09...	1330	3.0	2090	7.4	6.0	.5	13.3	58	--	--	440	2740
09...	1515	10	4500	7.4	6.0	2.5	13.6	48	--	--	980	2790
10...	0945	.10	2780	7.9	6.0	1.5	10.6	46	--	--	--	3230
10...	1140	3.5	4800	7.9	7.0	1.5	14.1	54	--	--	--	3260
10...	1300	11	5100	7.8	9.0	2.0	11.7	64	--	--	--	3260
10...	1430	14	2500	7.8	10.0	2.0	11.4	54	--	--	980	1990
28...	1020	.08	1400	7.4	.0	.0	13.0	4.0	440	750	350	888

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SUSPENDED SOLIDS (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT												
19...	--	--	2	--	.65	--	--	--	--	--	.23	--
19...	--	--	4	--	.65	--	--	--	--	--	.13	--
19...	--	--	33	--	1.8	--	--	--	--	--	.33	--
19...	--	--	29	--	2.0	--	--	--	--	--	.36	--
19...	--	--	22	--	1.1	--	--	--	--	--	.29	--
19...	--	--	22	--	.86	--	--	--	--	--	.20	--
19...	--	--	15	--	1.0	--	--	--	--	--	.26	--
29...	--	--	18	2.4	.50	.90	1.4	3.8	17	--	.17	8.4
NOV												
23...	--	--	4	4.8	1.2	--	1.1	5.9	26	--	.22	6.8
DEC												
14...	1.37	.03	20	2.8	.84	8.0	8.8	12	51	.82	.91	9.9
FEB												
09...	3.73	22.2	634	--	17	--	--	--	--	--	.82	120
09...	3.79	75.3	438	--	26	--	--	--	--	--	.23	83
10...	4.39	.87	106	--	4.6	--	--	--	--	--	.42	--
10...	4.43	30.8	266	--	8.4	--	--	--	--	--	.56	--
10...	4.43	96.8	3120	--	9.2	--	--	--	--	--	.39	--
10...	2.71	75.2	426	--	8.9	--	--	--	--	--	.72	62
28...	1.21	.19	6	2.6	1.1	--	.93	3.5	16	--	.21	9.0

B Results based on colony count outside the acceptable range (non-ideal colony count).

05580810 NORTH BRANCH SUGAR CREEK AT NORMAL, IL--Continued

WATER QUALITY DATA, OCTOBER 1976 TO MAY 1977

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
MAR											
11...	1555	.80	1070	7.9	--	--	12.0	17	--	--	160
11...	1610	1.3	770	7.8	--	--	11.0	27	--	--	110
11...	1625	2.6	910	7.9	--	--	12.1	21	--	--	140
11...	1640	4.3	1020	8.0	--	--	11.6	11	--	--	130
11...	1655	3.4	1850	7.9	--	--	11.2	42	--	--	410
11...	1945	1.2	940	7.8	--	--	10.2	39	--	--	170
11...	2000	1.1	920	7.6	--	--	10.2	37	--	--	170
11...	2015	1.0	910	7.7	--	--	10.2	35	--	--	170
11...	2335	.80	920	7.7	--	--	10.5	36	--	--	170
12...	0005	15	1010	7.6	--	--	11.4	41	--	--	230
12...	0035	78	190	8.4	--	--	11.7	76	--	--	25
12...	0105	42	130	8.4	--	--	12.5	17	--	--	14
12...	0135	29	130	8.1	--	--	12.4	11	--	--	14
12...	0205	39	165	8.2	--	--	12.3	9.0	--	--	20
12...	0235	53	205	8.2	--	--	11.7	8.0	--	--	26
12...	0305	42	150	8.3	--	--	12.5	7.0	--	--	13
12...	1130	3.2	600	7.8	15.5	14.0	13.1	9.0	--	--	83
24...	0905	1.3	930	8.2	4.0	3.0	13.0	2.0	150	580	120
27...	0630	4.0	810	8.1	--	--	13.0	--	--	--	91
27...	0730	2.9	730	8.1	--	--	12.4	--	--	--	90
27...	1630	2.2	470	7.7	--	--	12.2	--	--	--	46
27...	1700	1.5	440	7.7	--	--	12.2	--	--	--	46
28...	0940	48	270	7.8	--	13.0	11.3	--	--	--	26
29...	1840	2.2	910	8.0	--	--	10.3	3.0	--	--	--
29...	1910	2.4	900	8.0	--	--	10.4	--	--	--	--
29...	1940	2.2	920	8.0	--	--	10.4	--	--	--	--
29...	2010	2.2	910	7.9	--	--	10.8	--	--	--	--
29...	2040	2.2	920	7.9	--	--	10.8	4.0	--	--	--
29...	2110	2.2	930	8.0	--	--	10.9	--	--	--	--

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SUS-PENDED SOLIDS (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJFL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
MAR											
11...	712	.97	1.54	130	--	5.2	--	--	--	--	28
11...	576	.78	2.02	318	--	10	--	--	--	--	--
11...	640	.87	4.49	128	--	5.0	--	--	--	--	39
11...	708	.96	8.22	66	--	3.7	--	--	--	--	--
11...	1290	1.75	11.8	332	--	6.5	--	--	--	--	48
11...	688	.94	2.23	300	--	9.2	--	--	--	--	56
11...	712	.97	2.11	190	--	9.4	--	--	--	--	--
11...	764	1.04	2.06	164	--	9.4	--	--	--	--	--
11...	752	1.02	1.62	192	--	7.4	--	--	--	--	51
12...	792	1.08	32.1	1578	--	3.8	--	--	--	--	100
12...	316	.43	66.5	2050	--	4.2	--	--	--	--	--
12...	228	.31	25.9	1590	--	5.8	--	--	--	--	--
12...	192	.26	15.0	808	--	4.2	--	--	--	--	--
12...	244	.33	25.7	938	--	4.8	--	--	--	--	--
12...	284	.39	40.6	698	--	3.8	--	--	--	--	--
12...	268	.36	30.4	148	--	3.8	--	--	--	--	--
12...	344	.47	2.97	44	--	3.7	--	--	--	--	14
24...	636	.86	2.23	2	4.1	.33	.27	.60	4.7	21	2.4
27...	556	.76	6.00	147	--	1.8	--	--	--	--	--
27...	--	--	--	157	--	2.1	--	--	--	--	--
27...	--	--	--	97	--	1.2	--	--	--	--	--
27...	296	.40	1.20	91	--	1.6	--	--	--	--	--
28...	--	--	--	781	--	5.0	--	--	--	--	--
29...	556	.76	3.30	15	--	.60	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	520	.71	3.09	20	--	.30	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--

05580810 NORTH BRANCH SUGAR CREEK AT NORMAL, IL--Continued

WATER QUALITY DATA, OCTOBER 1976 TO MAY 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	DISSOLVED CHLORIDE (CL) (MG/L)
MAR											
30...	0040	2.0	920	8.0	--	--	11.1	--	--	--	--
30...	0110	2.0	900	8.0	--	--	9.3	--	--	--	--
30...	0140	2.0	900	7.9	--	--	10.4	--	--	--	--
30...	0210	2.0	940	7.9	--	--	10.6	3.0	--	--	--
30...	0240	2.0	900	8.0	--	--	11.0	--	--	--	--
30...	0310	2.0	910	8.0	--	--	11.2	--	--	--	--
30...	0340	2.0	910	8.0	--	--	11.4	--	--	--	--
30...	0410	2.0	920	8.0	--	--	11.7	--	--	--	--
30...	0440	2.0	910	8.1	--	--	11.1	2.0	--	--	--
30...	0510	1.8	920	8.0	--	--	11.2	--	--	--	--
30...	0540	1.8	920	8.0	--	--	11.2	--	--	--	--
30...	0610	1.8	920	8.1	--	--	11.0	--	--	--	--
30...	0640	1.8	890	8.0	--	--	10.8	--	--	--	--
30...	0710	1.8	880	8.0	--	--	10.6	2.0	--	--	--
30...	0740	1.5	900	8.0	--	--	10.7	--	--	--	--
30...	0810	1.5	880	8.1	--	--	10.5	--	--	--	--
30...	0840	1.5	900	8.1	--	--	10.6	--	--	--	--
30...	0910	1.5	910	8.1	--	--	10.5	3.0	--	--	--
APR											
04...	1340	22	430	7.5	--	--	10.7	10	--	--	41
04...	1410	19	280	7.5	--	--	10.4	10	--	--	26
04...	1440	12	185	7.3	--	--	10.9	8.0	--	--	17
04...	1510	13	400	7.5	--	--	10.7	7.0	--	--	36
04...	1540	8.7	390	7.6	--	--	10.7	9.0	--	--	48
04...	1610	5.7	470	7.5	--	--	10.8	7.0	--	--	56
22...	1040	.30	730	8.2	14.0	14.5	12.7	2.0	300	700	63
MAY											
01...	2325	19	240	7.8	--	--	9.8	16	--	--	18
01...	2355	23	190	8.1	--	--	10.8	13	--	--	--
02...	0025	23	250	8.0	--	--	11.0	11	--	--	--
02...	0555	48	140	8.2	--	--	11.1	13	--	--	7.3
02...	0625	37	120	8.4	--	--	10.8	12	--	--	--

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SUSPENDED SOLIDS (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
MAR											
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	584	.79	3.15	16	--	.60	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	556	.76	3.00	16	--	.60	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	572	.78	2.78	20	--	.90	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	16	--	.78	--	--	--	--	--
APR											
04...	156	.21	9.27	264	--	--	--	--	--	--	--
04...	104	.14	5.34	716	--	--	--	--	--	--	--
04...	128	.17	4.32	264	--	--	--	--	--	--	--
04...	179	.24	6.52	285	--	--	--	--	--	--	--
04...	148	.20	3.48	818	--	--	--	--	--	--	--
04...	183	.25	2.82	842	--	--	--	--	--	--	--
22...	452	.61	.37	6	1.1	.35	.65	1.0	2.1	9.3	8.1
MAY											
01...	132	.18	6.77	246	--	.95	--	--	--	--	--
01...	128	.17	7.95	293	--	1.0	--	--	--	--	--
02...	216	.29	13.4	194	--	.75	--	--	--	--	--
02...	88	.12	11.4	566	--	.58	--	--	--	--	--
02...	92	.13	9.19	344	--	.54	--	--	--	--	--

05580810 NORTH BRANCH SUGAR CREEK AT NORMAL, IL--Continued

WATER QUALITY DATA, OCTOBER 1976 TO MAY 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	DISSOLVED CHLORIDE (CL) (MG/L)
MAY											
02...	0655	75	120	8.4	--	--	10.4	12	--	--	5.8
02...	0725	91	100	8.6	--	--	9.6	13	--	--	4.7
02...	0755	58	130	8.3	--	--	9.6	9.0	--	--	5.7
02...	0825	50	175	8.3	--	--	9.5	11	--	--	--
02...	0855	56	160	8.3	--	--	9.5	7.0	--	--	7.5
02...	0925	46	140	8.2	--	--	9.6	6.0	--	--	--
02...	0955	50	210	8.1	--	--	9.6	4.0	--	--	--
02...	1025	52	220	8.1	--	--	10.6	3.0	--	--	--
02...	1055	50	180	8.2	--	--	11.2	4.0	--	--	9.6
02...	1125	39	200	8.2	--	--	11.3	5.0	--	--	--
02...	1155	30	240	8.1	--	--	11.6	4.0	--	--	16
02...	1225	24	320	8.1	--	--	11.4	4.0	--	--	--
02...	1255	19	360	8.1	--	--	11.3	4.0	--	--	27
02...	1325	17	380	8.0	--	--	11.6	5.0	--	--	--
02...	1355	19	410	8.0	--	--	11.6	7.0	--	--	--
02...	1425	18	410	8.0	--	--	11.5	5.0	--	--	31
02...	1455	18	400	8.0	--	--	11.4	5.0	--	--	--
02...	1525	16	440	8.0	--	--	11.4	5.0	--	--	34
02...	1555	14	470	8.0	--	--	11.6	6.0	--	--	--
02...	1625	13	510	8.0	--	--	11.6	4.0	--	--	41
02...	1655	12	550	8.0	--	--	11.7	4.0	--	--	--
02...	1725	11	530	8.1	--	--	11.7	5.0	--	--	42
02...	1755	10	550	8.1	--	--	11.6	6.0	--	--	--
02...	1825	9.7	560	8.1	--	--	11.0	5.0	--	--	49
02...	1855	9.4	580	8.1	--	--	10.6	3.0	--	--	--
02...	1925	9.2	590	8.1	--	--	10.6	3.0	--	--	53
02...	1955	8.9	620	8.1	--	--	10.7	4.0	--	--	--
02...	2025	8.6	630	8.1	--	--	10.6	2.0	--	--	58
03...	1000	6.0	810	8.4	--	18.5	10.8	3.0	--	--	73
04...	0715	200	--	7.9	--	--	--	13	--	--	--
04...	0745	80	--	7.8	--	--	--	6.0	--	--	--
04...	0815	120	--	7.8	--	--	--	6.0	--	--	--
24...	1035	1.3	830	8.1	28.0	23.5	11.0	3.0	B1600	1200	57

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SUSPENDED SOLIDS (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
MAY											
02...	68	.09	13.8	665	--	.42	--	--	--	--	--
02...	60	.08	14.7	915	--	.97	--	--	--	--	--
02...	80	.11	12.5	825	--	1.1	--	--	--	--	--
02...	192	.26	25.9	958	--	1.8	--	--	--	--	--
02...	232	.32	35.1	928	--	1.9	--	--	--	--	--
02...	152	.21	18.9	548	--	.92	--	--	--	--	--
02...	245	.33	33.1	396	--	.86	--	--	--	--	--
02...	164	.22	23.0	482	--	2.6	--	--	--	--	--
02...	160	.22	21.6	584	.83	.54	1.2	1.7	2.5	11	--
02...	128	.17	13.5	350	--	.65	--	--	--	--	--
02...	244	.33	19.8	256	1.2	.69	.61	1.3	2.5	11	--
02...	172	.23	11.1	190	--	.72	--	--	--	--	--
02...	244	.33	12.5	140	2.0	.63	.77	1.4	3.4	15	--
02...	268	.36	12.3	132	--	1.4	--	--	--	--	--
02...	300	.41	15.4	90	--	1.3	--	--	--	--	--
02...	276	.38	13.4	76	2.7	1.2	.80	1.2	3.9	17	--
02...	288	.39	14.0	78	--	.98	--	--	--	--	--
02...	352	.48	15.2	68	2.8	.56	.31	.87	3.7	16	--
02...	336	.46	12.7	72	--	.58	--	--	--	--	--
02...	332	.45	11.7	70	4.8	1.3	--	1.2	6.0	27	--
02...	408	.55	13.2	66	--	1.6	--	--	--	--	--
02...	276	.38	8.20	76	4.9	1.2	.10	1.3	6.2	27	--
02...	320	.44	8.64	56	--	1.2	--	--	--	--	--
02...	--	--	--	44	5.7	1.0	.10	1.1	6.8	30	--
02...	464	.63	11.8	30	--	.95	--	--	--	--	--
02...	--	--	--	39	6.4	.78	.42	1.2	7.6	34	--
02...	432	.59	10.4	10	--	.58	--	--	--	--	--
02...	436	.59	10.1	33	6.6	.53	.43	.96	7.6	33	--
03...	504	.69	8.16	6	7.7	.48	.35	.83	8.5	38	--
04...	284	.39	153	220	--	.81	--	--	--	--	--
04...	272	.37	64.6	1050	--	.81	.--	--	--	--	--
04...	388	.42	99.8	2060	--	.74	--	--	--	--	--
24...	604	.82	2.12	10	11	.46	--	--	--	--	3.1

B Results based on colony count outside the acceptable range (non-ideal colony count).

05580930 WEST SLOUGH AT BLOOMINGTON, IL

LOCATION.--Lat 40°28'50", long 89°01'09", in SW¼NW¼ sec.5, T.23 N., R.2 E., McLean County, Hydrologic Unit 07130009, at downstream end of outfall under Caroline Street, 0.1 mi (0.2 km) west of Bloomington, and 0.2 mi (0.3 km) upstream from mouth.

DRAINAGE AREA.--3.26 mi^2 (8.44 km^2).

PERIOD OF RECORD.--Water year 1975 to May 1977 (discontinued).

COOPERATION.--Most data for ammonia nitrogen, suspended solids, dissolved solids, and biochemical oxygen demand were furnished by Bloomington-Normal Sanitary District and were reviewed by U.S. Geological Survey.

WATER QUALITY DATA, OCTOBER 1976 TO MAY 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT												
05...	0545	7.8	540	7.0	--	--	7.5	107	--	--	47	--
05...	0600	5.8	500	7.1	--	--	6.1	108	--	--	36	--
05...	0615	17	410	7.2	--	--	7.4	108	--	--	29	--
05...	0630	11	360	7.1	--	--	6.5	104	--	--	21	--
05...	0645	7.8	380	7.2	--	--	6.[illegible]	--	--	--	20	--
05...	0700	5.0	375	7.2	--	--	6.3	110	--	--	21	--
05...	1015	3.5	520	7.6	--	--	6.4	--	--	--	--	--
05...	1030	5.0	540	7.0	--	--	6.5	93	--	--	--	--
05...	1315	6.2	410	7.2	--	--	7.5	--	--	--	32	--
05...	1330	5.8	420	7.0	--	--	7.5	89	--	--	--	--
05...	1345	6.4	380	7.0	--	--	7.5	--	--	--	--	--
05...	1400	5.8	380	7.5	--	--	8.0	--	--	--	--	--
05...	1415	5.0	400	7.5	--	--	8.3	--	--	--	--	--
05...	1430	4.2	410	7.5	--	--	7.5	--	--	--	32	--
05...	1445	7.8	360	7.7	--	--	7.5	--	--	--	--	--
05...	1500	12	320	7.2	--	--	7.5	--	--	--	24	--
05...	1515	12	360	7.0	--	--	7.3	--	--	--	--	--
05...	1530	13	275	7.4	--	--	7.5	--	--	--	--	--
05...	1545	17	190	6.9	--	--	7.7	--	--	--	--	--
05...	1600	21	230	8.3	--	--	7.3	--	--	--	--	--
05...	1615	19	220	8.0	--	--	7.5	--	--	--	--	--
05...	1630	15	270	7.6	--	--	7.8	--	--	--	22	--
NOV												
23...	1215	.06	--	--	1.5	12.0	--	--	--	--	--	--
FEB												
09...	1410	6.6	3000	7.6	6.5	8.0	8.2	250	--	--	880	2030
09...	1545	7.0	3200	7.7	6.0	7.5	10.3	200	--	--	950	1980
10...	1025	3.7	1400	8.4	5.5	2.5	11.7	102	--	--	--	972
10...	1220	15	2600	8.3	7.0	7.0	11.8	190	--	--	750	1790
10...	1325	25	2500	7.3	8.0	6.0	8.4	190	--	--	760	1700
10...	1500	33	2200	7.3	8.5	5.0	10.2	150	--	--	680	1540
MAR												
24...	1430	.31	1100	7.8	11.0	11.0	8.4	--	3200000	800000	170	648
29...	1105	11	460	7.7	--	12.5	10.8	--	--	--	46	300
MAY												
02...	1025	19	570	8.5	--	15.0	10.2	57	--	--	47	372

05580930 WEST SLOUGH AT BLOOMINGTON, IL--Continued

WATER QUALITY DATA, OCTOBER 1976 TO MAY 1977

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SUS-PENDED SOLIDS (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT											
05...	--	--	196	.06	14	29	43	43	190	8.8	--
05...	--	--	132	.05	15	73	88	88	390	12	--
05...	--	--	68	.07	15	30	45	45	200	3.8	--
05...	--	--	282	.06	10	39	49	49	220	4.8	--
05...	--	--	354	.05	12	7.0	19	19	84	4.6	--
05...	--	--	256	.05	15	2.0	17	17	75	4.7	--
05...	--	--	276	--	60	--	--	--	--	--	--
05...	--	--	160	--	12	--	--	--	--	--	--
05...	--	--	232	.05	12	1.0	13	13	58	3.7	--
05...	--	--	182	--	11	--	--	--	--	--	--
05...	--	--	144	--	12	--	--	--	--	--	--
05...	--	--	92	--	12	--	--	--	--	--	--
05...	--	--	128	--	11	--	--	--	--	--	--
05...	--	--	88	1.1	12	6.0	18	19	85	4.2	--
05...	--	--	148	--	11	--	--	--	--	--	--
05...	--	--	216	.87	9.2	.60	9.8	11	47	3.0	--
05...	--	--	277	--	7.4	--	--	--	--	--	--
05...	--	--	210	--	7.6	--	--	--	--	--	--
05...	--	--	96	--	5.5	--	--	--	--	--	--
05...	--	--	210	--	6.3	--	--	--	--	--	--
05...	--	--	140	--	6.6	--	--	--	--	--	--
05...	--	--	276	.72	7.6	1.7	9.3	10	44	3.0	--
FEB											
09...	2.76	36.2	1290	--	20	--	--	--	--	8.4	130
09...	2.66	37.4	614	--	21	--	--	--	--	7.2	170
10...	1.32	9.71	500	--	14	--	--	--	--	6.3	--
10...	2.63	72.5	1480	--	19	--	--	--	--	8.4	130
10...	2.31	115	1450	--	12	--	--	--	--	7.2	--
10...	2.09	137	706	--	9.2	--	--	--	--	3.5	72
MAR											
24...	.58	.56	114	.05	--	--	18	18	80	5.1	--
28...	.41	8.91	166	--	4.2	--	--	--	--	2.0	--
MAY											
02...	.51	19.1	156	--	3.5	--	--	--	--	3.9	--

05580945 SUGAR CREEK ABOVE SEWAGE PLANT AT BLOOMINGTON, IL

LOCATION.--Lat 40°28'21", long 89°01'36", in NW¼NE¼ sec.7, T.23 N., R.2 E., McLean County, Hydrologic Unit 07130009, 100 ft (31 m) upstream from the Bloomington-Normal Sanitary Treatment plant outfall and 0.4 mi (0.6 km) west of Bloomington.

DRAINAGE AREA.--32.4 mi² (83.9 km²).

PERIOD OF RECORD.--April 1976 to June 1977 (discontinued).

REMARKS.--Unpublished analyses for May and July 1975 are available in files of district office.

COOPERATION.--Most data for ammonia nitrogen, suspended solids, dissolved solids, and biochemical oxygen demand were furnished by Bloomington-Normal Sanitary District and were reviewed by U.S. Geological Survey.

WATER QUALITY DATA, OCTOBER 1976 TO JUNE 1977

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT												
29...	1300	.55	1300	7.8	9.0	11.0	13.3	2.0	670	970	44	--
NOV												
23...	1245	2.0	1060	7.8	1.5	11.0	10.2	11	190	1200	44	--
DEC												
14...	1215	1.0	1150	7.7	6.0	8.5	10.1	16	B120000	B37000	54	705
JAN												
26...	1115	.32	1600	7.7	-1.0	11.5	10.8	2.0	B110	560	41	1070
FEB												
08...	0925	1.8	1130	7.9	-9.5	4.0	11.7	2.0	--	--	39	812
08...	1200	1.8	1210	8.0	-5.5	5.5	11.1	2.0	--	--	42	852
08...	1415	5.8	1080	7.9	-2.0	6.0	11.8	1.0	--	--	87	960
09...	0950	.50	1140	7.4	.5	3.5	9.0	17	--	--	51	948
09...	1130	1.6	1090	7.2	4.5	2.0	4.1	>90	--	--	350	760
09...	1300	4.2	970	6.7	5.5	3.0	3.6	>90	--	--	69	652
09...	1450	5.4	1040	6.5	5.5	3.0	1.7	>90	--	--	--	720
10...	0905	3.0	2720	7.6	4.5	1.5	11.3	67	--	--	--	1740
10...	1100	3.0	2450	7.6	6.5	3.0	9.3	58	--	--	650	1470
10...	1345	33	2500	7.6	8.0	3.0	8.1	>80	--	--	--	1580
10...	1520	68	1890	7.4	11.0	4.0	9.2	130	--	--	610	1360
28...	1240	1.2	1300	7.9	3.5	12.0	10.3	7.0	B8	B23	59	692
MAR												
24...	1530	10	760	7.9	11.5	13.0	11.5	9.0	B14000	5600	76	456
28...	1115	250	350	6.9	--	13.0	10.6	--	--	--	41	256
APR												
22...	1305	2.3	770	8.5	12.0	15.5	8.2	3.0	2500	450	50	504
MAY												
02...	1035	350	240	7.9	--	15.5	10.0	19	--	--	18	236
24...	1355	7.3	850	7.9	--	26.5	7.4	4.0	1000	1900	42	472
JUN												
16...	1015	2.7	820	8.0	27.5	25.5	5.2	2.0	--	--	--	1100
16...	1205	2.6	820	7.8	29.5	24.5	6.8	2.0	--	--	--	876
16...	1400	2.5	830	8.1	29.5	26.5	7.8	1.0	--	--	--	600
16...	1555	2.5	930	8.1	29.0	26.5	8.3	2.0	--	--	--	616
16...	1755	2.5	930	8.1	29.0	27.0	8.2	3.0	--	--	--	668
16...	1955	2.6	930	8.1	28.0	25.5	6.9	4.0	--	--	--	528
16...	2200	2.6	880	8.3	23.5	23.5	5.2	3.0	--	--	--	580
16...	2355	2.6	880	7.9	23.5	23.0	3.1	5.0	--	--	--	456
17...	0200	2.6	890	7.9	23.5	23.0	2.8	2.0	--	--	--	648
17...	0355	2.5	920	8.2	21.0	22.0	2.6	3.0	--	--	--	704
17...	0600	2.5	840	7.9	21.0	21.5	2.7	4.0	--	--	--	712
17...	0755	2.5	950	8.1	24.0	22.0	3.3	3.0	--	--	--	660
17...	1000	2.6	970	8.0	28.0	24.0	4.8	3.0	--	--	--	616
17...	1155	2.6	950	8.1	29.5	25.5	5.6	3.0	--	--	--	636

B Results based on colony count outside acceptable range (non-ideal colony count).

05580945 SUGAR CREEK ABOVE SEWAGE PLANT AT BLOOMINGTON, IL--Continued

WATER QUALITY DATA, OCTOBER 1976 TO JUNE 1977

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SUS-PENDED SOLIDS (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT												
29...	--	--	14	.11	1.0	--	.93	1.0	4.6	--	.17	5.5
NOV												
23...	--	--	14	.35	4.6	--	--	--	--	--	.39	7.2
DEC												
14...	.96	1.90	33	.06	5.8	.30	6.1	6.2	27	.77	1.5	13
JAN												
26...	1.46	.92	14	.12	.93	.01	.94	1.1	4.7	--	.14	3.4
FEB												
08...	1.10	3.95	14	--	.93	--	--	--	--	--	.39	--
08...	1.16	4.14	24	--	1.7	--	--	--	--	--	.39	--
08...	1.31	15.0	10	--	1.0	--	--	--	--	--	.39	7.0
09...	1.29	1.28	41	--	3.2	--	--	--	--	--	.13	14
09...	1.03	3.28	169	--	13	--	--	--	--	--	1.9	58
09...	.89	7.39	45	--	14	--	--	--	--	--	1.9	72
09...	.98	10.5	79	--	33	--	--	--	--	--	4.0	--
10...	2.37	14.1	16	--	12	--	--	--	--	--	3.1	--
10...	2.00	11.9	56	--	11	--	--	--	--	--	2.8	30
10...	2.15	141	712	--	8.4	--	--	--	--	--	5.2	--
10...	1.85	250	412	--	11	--	--	--	--	--	3.5	110
28...	.94	2.24	10	.64	2.3	--	1.8	2.4	11	--	.24	6.9
MAR												
24...	.62	12.8	16	3.6	2.6	1.6	4.2	7.8	35	--	.89	10
28...	.35	173	623	--	6.7	--	--	--	--	--	1.4	--
APR												
22...	.69	3.13	10	1.0	1.6	--	1.4	2.4	11	--	.27	5.0
MAY												
02...	.32	223	690	--	1.7	--	--	--	--	--	2.2	--
24...	.64	9.34	10	9.0	.92	--	.74	9.7	43	--	.13	2.9
JUN												
16...	1.50	8.02	23	--	1.4	--	--	--	--	--	--	--
16...	1.19	6.15	29	--	.80	--	--	--	--	--	--	--
16...	.82	4.05	12	--	1.2	--	--	--	--	--	--	--
16...	.84	4.16	23	--	1.5	--	--	--	--	--	--	--
16...	.91	4.51	28	--	.90	--	--	--	--	--	--	--
16...	.72	3.71	5	--	1.0	--	--	--	--	--	--	--
16...	.79	4.07	16	--	1.4	--	--	--	--	--	--	--
16...	.62	3.20	17	--	1.0	--	--	--	--	--	--	--
17...	.88	4.55	19	--	1.4	--	--	--	--	--	--	--
17...	.96	4.75	16	--	1.3	--	--	--	--	--	--	--
17...	.97	4.81	11	--	1.6	--	--	--	--	--	--	--
17...	.90	4.45	15	--	1.2	--	--	--	--	--	--	--
17...	.84	4.32	13	--	1.3	--	--	--	--	--	--	--
17...	.86	4.46	21	--	1.1	--	--	--	--	--	--	--

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)
DEC										
14...	1	8	1	10	<10	130	10	20	120	9600

DATE	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
DEC										
14...	2	170	380	200	<.5	.1	7	60	40	100

05580950 SUGAR CREEK NEAR BLOOMINGTON, IL

LOCATION.--Lat 40°28'18", long 89°01'46", in NE¼NW¼ sec.7, T.23 N., R.2 E., McLean County, Hydrologic Unit 07130009, on left bank 250 ft (76 m) upstream from Interstate 74 highway bridge and 0.4 mi (0.6 km) west of Bloomington.

DRAINAGE AREA.--34.6 mi² (89.6 km²), revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 725.11 ft (221.013 m) above mean sea level.

REMARKS.--Water-discharge records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,550 ft³/s (101 m³/s) June 28, 1976, gage height, 10.47 ft (3.191 m) on basis of slope area indirect measurement; maximum gage height, 10.72 ft (3.267 m) Feb. 16, 1976; minimum daily discharge, 9.0 ft³/s (0.25 m³/s) Dec. 25, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,340 ft³/s (94.6 m³/s) Sept. 13, gage height, 10.36 ft (3.158 m); minimum daily discharge, 9.0 ft³/s (0.25 m³/s) Dec. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	19	13	12	15	22	34	23	18	22	18	78
2	14	20	13	12	15	21	81	380	18	16	18	28
3	14	19	15	13	16	23	29	60	19	16	17	21
4	14	19	15	12	15	21	69	289	18	16	20	143
5	123	17	14	13	15	17	35	613	17	17	148	69
6	78	15	15	13	15	17	34	464	18	20	991	38
7	17	14	15	13	16	18	30	255	19	18	590	33
8	17	15	14	14	15	18	26	60	33	21	320	29
9	16	15	15	14	18	18	24	55	18	18	153	28
10	16	20	16	15	23	18	23	50	38	16	122	25
11	15	15	15	15	27	28	26	80	85	17	145	23
12	15	16	15	15	30	245	25	64	18	20	80	228
13	15	15	16	16	24	39	25	53	19	19	53	1230
14	15	14	16	16	22	26	24	43	19	17	40	312
15	14	17	15	17	21	23	23	37	19	18	34	435
16	14	17	15	19	22	20	22	34	18	145	33	195
17	14	18	15	22	23	58	21	32	26	30	33	138
18	14	18	14	17	21	42	22	28	45	29	28	325
19	13	16	14	17	20	32	26	26	17	22	27	171
20	13	13	13	17	18	44	24	25	18	90	26	107
21	14	12	14	17	18	75	39	24	17	34	23	53
22	14	16	13	16	25	80	24	20	38	22	27	46
23	14	16	13	16	85	45	25	23	22	19	22	39
24	13	14	12	18	27	36	20	25	20	18	26	340
25	13	11	9.0	17	22	30	20	24	15	20	23	81
26	14	51	11	16	23	27	19	23	16	19	24	51
27	14	33	13	16	22	41	19	20	20	18	23	35
28	14	12	13	15	22	261	19	19	34	19	192	28
29	14	13	13	16	---	92	17	18	24	25	71	25
30	27	14	14	15	---	50	17	19	61	18	33	31
31	16	---	15	16	---	37	---	18	---	65	25	---
TOTAL	633	524	433.0	480	635	1516	842	2904	767	864	3385	4385
MEAN	20.4	17.5	14.0	15.5	22.7	48.9	28.1	93.7	25.6	27.9	109	146
MAX	123	51	16	22	85	261	81	613	85	145	991	1230
MIN	13	11	9.0	12	15	17	17	18	15	16	17	21

CAL YR 1976 TOTAL 19022.0 MEAN 52.0 MAX 1220 MIN 9.0
WTR YR 1977 TOTAL 17368.0 MEAN 47.6 MAX 1230 MIN 9.0

05580950 SUGAR CREEK NEAR BLOOMINGTON, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1975 to June 1977 (discontinued).

COOPERATION.--Most data for ammonia nitrogen, suspended solids, dissolved solids, and biochemical oxygen demand were furnished by Bloomington-Normal Sanitary District and were reviewed by U.S. Geological Survey.

WATER QUALITY DATA, OCTOBER 1976 TO JUNE 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT												
29...	1425	18	770	7.4	13.0	16.0	7.4	10	85	B27	79	--
NOV												
23...	1315	19	800	--	2.0	13.0	8.7	42	97	B240	85	--
DEC												
14...	1355	18	930	7.3	6.5	9.5	8.7	70	>92000	B140000	88	558
JAN												
26...	1300	21	870	7.2	-4.5	8.5	8.9	66	8600	34000	89	520
FEB												
08...	0915	20	760	7.4	-9.5	4.5	13.0	42	--	--	96	404
08...	1210	20	790	7.6	-5.5	6.5	10.7	53	--	--	97	384
08...	1430	24	830	7.6	-2.0	6.0	11.1	37	--	--	94	384
09...	0935	20	810	7.2	1.0	5.5	11.2	63	--	--	100	552
09...	1115	20	790	7.3	4.5	7.0	10.0	41	--	--	270	545
09...	1315	21	970	6.3	5.5	9.5	4.2	>90	--	--	90	672
09...	1440	21	880	7.2	5.5	9.0	9.2	72	--	--	99	452
10...	0920	20	1380	7.5	4.5	9.0	13.0	23	--	--	--	864
10...	1115	21	1230	7.6	6.5	9.0	9.5	20	--	--	85	648
10...	1400	62	1950	7.4	8.0	5.0	9.2	>80	--	--	--	1470
10...	1535	100	1660	7.2	7.0	5.0	9.5	>80	--	--	600	1370
28...	1340	24	1090	7.5	5.0	9.0	10.4	26	89	B86	130	524
MAR												
24...	1600	36	790	7.5	11.5	11.5	9.5	14	82	B120	80	624
29...	1120	280	430	7.5	--	13.0	10.7	--	--	--	48	196
APR												
22...	1420	26	870	7.2	14.5	15.0	8.1	59	270000	B74000	75	536
MAY												
02...	1045	390	350	7.4	--	15.5	9.0	24	--	--	27	284
24...	1505	30	910	7.4	--	23.0	6.3	14	800	900	73	624
JUN												
16...	1005	16	810	7.8	27.5	21.0	3.2	16	--	--	--	796
16...	1155	17	810	7.1	29.5	22.0	5.2	18	--	--	--	508
16...	1400	15	860	7.5	29.5	22.0	5.8	21	--	--	--	476
16...	1600	17	900	7.7	29.0	22.0	5.6	16	--	--	--	604
16...	1800	16	890	7.6	29.0	22.0	5.8	15	--	--	--	588
16...	2000	17	870	7.5	28.0	22.0	5.6	12	--	--	--	476
16...	2205	15	870	7.9	23.5	21.5	5.3	12	--	--	--	472
16...	2400	16	900	7.4	23.5	21.5	4.8	13	--	--	--	496
17...	0205	14	870	7.3	23.5	21.0	5.2	12	--	--	--	556
17...	0400	12	860	7.4	21.0	21.0	5.4	11	--	--	--	544
17...	0605	12	860	7.3	21.0	20.5	4.9	10	--	--	--	584
17...	0800	10	880	7.5	24.0	21.5	5.4	6.0	--	--	--	536
17...	1005	16	810	7.5	28.0	22.0	5.6	9.0	--	--	--	600
17...	1205	17	810	7.5	29.5	22.0	6.0	8.0	--	--	--	508

B Results based on colony count outside acceptable range (non-ideal colony count).

05580950 SUGAR CREEK NEAR BLOOMINGTON, IL--Continued

WATER QUALITY DATA, OCTOBER 1976 TO JUNE 1977

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SUS-PENDED SOLIDS (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJFL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT												
29...	--	--	41	4.9	15	.80	15	20	88	--	5.7	25
NOV												
23...	--	--	35	4.3	17	2.6	20	24	110	--	3.9	38
DEC												
14...	.76	27.1	48	2.7	21	--	18	21	92	4.3	6.9	25
JAN												
26...	.71	29.5	128	.07	14	--	--	--	--	--	2.8	51
FEB												
08...	.55	21.8	80	--	20	--	--	--	--	--	11	--
08...	.52	20.7	57	--	20	--	--	--	--	--	9.0	--
08...	.52	24.9	46	--	21	--	--	--	--	--	8.1	40
09...	.75	29.8	60	--	20	--	--	--	--	--	5.5	--
09...	.74	29.4	90	--	18	--	--	--	--	--	5.1	22
09...	.91	38.1	1300	--	62	--	--	--	--	--	18	170
09...	.61	25.6	109	--	33	--	--	--	--	--	8.1	31
10...	1.18	46.7	54	--	15	--	--	--	--	--	6.7	--
10...	.88	36.7	45	--	16	--	--	--	--	--	6.3	36
10...	2.00	246	1270	--	15	--	--	--	--	--	6.1	--
10...	1.86	370	860	--	14	--	--	--	--	--	5.5	81
28...	.71	34.0	67	4.1	16	1.0	17	21	93	--	2.9	29
MAR												
24...	.85	60.7	32	6.2	6.5	.70	7.2	13	59	--	3.6	18
28...	.27	148	397	--	6.3	--	--	--	--	--	1.5	--
APR												
22...	.73	37.6	54	4.4	11	1.0	12	16	73	--	4.7	30
MAY												
02...	.39	299	491	--	2.1	--	--	--	--	--	8.5	--
24...	.85	50.5	30	7.3	5.8	1.6	7.4	15	65	--	3.4	4.7
JUN												
16...	1.08	34.4	55	--	16	--	--	--	--	--	--	--
16...	.69	23.3	55	--	7.6	--	--	--	--	--	--	--
16...	.65	19.3	33	--	9.8	--	--	--	--	--	--	--
16...	.82	27.7	46	--	9.5	--	--	--	--	--	--	--
16...	.80	25.4	39	--	9.8	--	--	--	--	--	--	--
16...	.65	21.8	20	--	9.2	--	--	--	--	--	--	--
16...	.64	19.1	24	--	8.5	--	--	--	--	--	--	--
16...	.67	21.4	28	--	8.2	--	--	--	--	--	--	--
17...	.76	21.0	20	--	8.2	--	--	--	--	--	--	--
17...	.74	17.6	19	--	8.4	--	--	--	--	--	--	--
17...	.79	18.9	21	--	7.3	--	--	--	--	--	--	--
17...	.73	14.5	23	--	6.5	--	--	--	--	--	--	--
17...	.82	25.9	30	--	6.3	--	--	--	--	--	--	--
17...	.69	23.3	29	--	7.0	--	--	--	--	--	--	--

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G)
DEC										
14...	1	5	2	0	370	20	10	20	100	5700

DATE	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
DEC										
14...	3	50	70	370	<.5	<.5	170	20	40	100

05582000 SALT CREEK NEAR GREENVIEW, IL

LOCATION.--Lat 40°08'01", long 89°44'08", in NE¼NE¼ sec.2, T.19 N., R.6 W., Mason County, Hydrologic Unit 07130009, near center of span on downstream side of bridge on State Highway 29, 3.3 mi (5.3 km) downstream from Pike Creek, 3.5 mi (5.6 km) north of Greenview, and 5.0 mi (8.0 km) upstream from mouth.

DRAINAGE AREA.--1,804 mi² (4,672 km²).

PERIOD OF RECORD.--October 1941 to current year.

REVISED RECORDS.--WSP 1175: 1948(P). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 479.00 ft (145.999 m) above mean sea level (Corps of Engineers bench mark). Prior to Nov. 3, 1972, nonrecording gage at same site and datum.

REMARKS.--Records poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--36 years, 1,209 ft³/s (34.24 m³/s), 9.10 in/yr (231 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41,200 ft³/s (1,170 m³/s) May 19, 1943, gage height, 20.50 ft (6.248 m), from graph based on gage readings; minimum, 46 ft³/s (1.30 m³/s) Sept. 25, 26, Oct. 12-14, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft³/s (140 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 8	0045	*18000	510	*16.79	5.118	Sept. 15	0800	5440	154	9.25	2.819

Minimum daily discharge, 94 ft³/s (2.66 m³/s) Jan. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	181	130	100	100	435	1640	706	765	454	542	716
2	159	175	120	100	110	404	1530	731	726	454	538	687
3	150	166	110	100	110	395	1630	1090	807	458	497	667
4	144	166	110	100	110	400	1470	1330	759	435	369	620
5	145	162	110	100	100	431	1430	3840	688	418	285	735
6	206	156	110	100	100	458	1310	9300	669	409	294	1050
7	322	156	110	100	100	422	1200	14800	705	395	2810	745
8	259	156	110	100	100	391	1070	15900	725	395	4740	639
9	230	156	110	100	100	365	955	10100	565	387	4070	591
10	213	156	110	100	110	340	908	7050	455	378	3760	509
11	190	155	100	110	150	344	903	5580	460	369	3650	477
12	180	151	100	110	249	527	800	4240	462	391	4020	467
13	167	151	100	110	667	1040	760	3640	459	440	4250	1350
14	159	151	100	110	745	987	735	2690	454	811	3590	4870
15	156	151	100	100	568	826	716	2290	444	1210	2410	5090
16	152	155	100	100	383	714	696	2020	440	1220	1550	4150
17	149	144	100	96	350	629	667	1810	445	1220	1510	3640
18	146	140	100	94	330	760	634	1550	447	1050	1470	3140
19	146	137	100	94	327	1030	605	1500	448	764	1270	3270
20	148	137	100	96	312	992	596	1300	436	771	1060	2870
21	153	137	110	100	304	955	596	1210	416	696	1170	2340
22	154	135	120	110	330	913	610	1240	406	524	1360	1550
23	148	150	110	110	550	1050	692	1110	403	523	1270	1560
24	152	150	100	110	1170	1080	1040	994	406	519	1100	1750
25	156	150	100	100	1120	924	1190	957	400	528	966	2370
26	160	150	100	100	775	846	1050	959	387	517	872	2080
27	160	161	100	100	591	785	976	895	385	495	795	1710
28	156	172	100	100	477	944	882	930	454	474	810	1510
29	153	155	110	100	---	2090	805	955	564	458	992	1370
30	156	140	120	100	---	2340	740	858	500	460	1100	1420
31	168	---	110	100	---	1940	---	854	---	517	861	---
TOTAL	5306	4602	3310	3150	10447	25739	28826	102429	15680	18140	53981	53943
MEAN	171	153	107	102	373	831	961	3304	523	585	1741	1798
MAX	322	181	130	110	1170	2340	1640	15900	807	1220	4740	5090
MIN	144	135	100	94	100	340	596	706	385	369	285	467
CFSM	.10	.09	.06	.06	.21	.46	.53	1.83	.29	.32	.97	1.00
IN.	.11	.09	.07	.06	.22	.53	.59	2.11	.32	.37	1.11	1.11

CAL YR 1976 TOTAL 354635 MEAN 969 MAX 10600 MIN 100 CFSM .54 IN 7.31
WTR YR 1977 TOTAL 325573 MEAN 892 MAX 15900 MIN 94 CFSM .49 IN 6.71

05583000 SANGAMON RIVER NEAR OAKFORD, IL

LOCATION.--Lat 40°07'25", long 89°59'05", in NW¼SE¼ sec.3, T.19 N., R.8 W., Mason County, Hydrologic Unit 07130008, on right bank at downstream side of bridge on State Highway 97, just upstream from Chicago & Illinois Midland Railway bridge, 0.8 mi (1.3 km) downstream from Crane Creek, and 1.8 mi (2.9 km) northwest of Oakford.

DRAINAGE AREA.--5,093 mi² (13,191 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1909 to October 1911, December 1911 to March 1912, August 1914 to June 1919, March 1921 to September 1922, October 1928 to December 1933, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 715: 1922(M). WSP 1175: 1912(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and artificial control. Datum of gage is 452.88 ft (138.038 m) above mean sea level (Corps of Engineers bench mark). Prior to Jan. 1, 1934, nonrecording gage at site 2.4 mi (3.9 km) upstream at datum 458.66 ft (139.800 m) above mean sea level. Oct. 1, 1939, to May 14, 1940, nonrecording gage at present site at datum at mean sea level.

REMARKS.--Water-discharge records good except those for winter periods and those for period of no gage-height record, May 6-10, which are poor.

AVERAGE DISCHARGE.--50 years (water years 1910-11, 1915-18, 1922, 1929-33, 1940-77), 3,205 ft³/s (90.77 m³/s), 8.54 in/yr (217 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 123,000 ft³/s (3,480 m³/s) May 20, 1943, gage height, 25.63 ft (7.812 m); minimum, 45 ft³/s (1.27 m³/s) Jan. 21-31, 1918, estimated.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,100 ft³/s (824 m³/s) May 9, gage height, 19.20 ft (5.852 m), from peak stage indicator; minimum, 176 ft³/s (4.98 m³/s) Dec. 29, result of freezeup.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	349	354	270	250	230	866	4310	1440	2110	2380	1060	2190
2	326	368	260	240	240	803	4020	1400	1960	1880	918	1940
3	303	349	260	230	240	743	4360	1610	1820	1600	813	2010
4	289	344	250	230	240	723	4060	2130	1720	1420	732	2050
5	303	335	250	230	230	741	3240	6000	1650	1320	702	1980
6	358	316	250	230	230	755	3180	15000	1560	1210	707	2670
7	474	307	250	230	230	740	3130	26000	1470	1080	2720	2120
8	495	312	250	230	230	704	2500	28300	1450	1050	6410	1790
9	458	303	250	230	230	662	2270	28700	1470	918	7280	1580
10	432	298	250	230	240	667	2190	27600	1720	878	7040	1550
11	387	298	250	230	350	661	1950	25000	1780	876	7030	1410
12	354	294	250	240	600	1000	1740	21300	1890	871	7600	1280
13	330	294	250	240	900	1560	1570	17000	1850	1480	8080	1850
14	316	294	250	240	1200	1760	1460	13600	1860	1980	7960	5520
15	298	294	250	230	1100	1540	1410	11500	1640	2210	7490	6650
16	294	298	250	220	850	1300	1350	9170	1470	1590	7350	5870
17	289	298	250	220	700	1180	1480	6520	1390	1440	7250	5630
18	289	298	250	220	640	1250	1420	5280	1350	1620	7220	4950
19	294	294	250	220	620	1680	1290	4590	1290	1890	6400	4930
20	294	289	250	230	600	1710	1180	4180	1240	1900	5090	5130
21	298	289	270	230	600	1560	1160	3820	1160	1840	3940	4450
22	298	290	290	240	600	1690	1180	3510	1130	1580	3550	4060
23	303	294	290	240	800	1950	1300	3260	1100	1330	4290	3480
24	303	294	270	240	1580	1800	2050	3030	1100	1140	4360	3260
25	312	298	250	240	1810	1560	2580	2900	1110	1050	3250	3690
26	368	312	230	240	1490	1390	2370	2860	1070	988	2340	3360
27	358	321	230	230	1200	1430	2040	2720	1050	948	2280	3040
28	354	349	230	230	969	1820	1740	2500	1090	909	2420	2790
29	335	293	226	230	---	3460	1530	2510	2060	856	2650	2600
30	335	280	300	230	---	4850	1390	2510	2710	952	2470	2560
31	339	---	280	230	---	4490	---	2320	---	1050	2250	---
TOTAL	10535	9257	7906	7200	18949	47045	65450	288260	46270	42236	133352	96390
MEAN	340	309	255	232	677	1518	2182	9299	1542	1362	4302	3213
MAX	495	368	300	250	1810	4850	4360	28700	2710	2380	8080	6650
MIN	289	280	226	220	230	661	1160	1400	1050	856	702	1280
CFSM	.07	.06	.05	.05	.13	.30	.43	1.83	.30	.27	.85	.63
IN.	.08	.07	.06	.05	.14	.34	.48	2.11	.34	.31	.97	.70

CAL YR 1976 TOTAL 836210 MEAN 2285 MAX 19000 MIN 226 CFSM .45 IN 6.11
WTR YR 1977 TOTAL 772850 MEAN 2117 MAX 28700 MIN 220 CFSM .42 IN 5.65

05583000 SANGAMON RIVER NEAR OAKFORD, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1976 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1976 to September 1977 (discontinued).

INSTRUMENTATION.--Temperature recorder since May 5, 1976.

REMARKS.--Interruptions in the daily record were due to malfunctions in the instrument.

COOPERATION.--Chemical data were furnished by Illinois State Water Survey and were reviewed by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 32.5°C July 7, 18, 1977; minimum, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 32.5°C July 7, 18; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT												
08...	1430	484	678	7.3	--	15.0	16	11.8	266	61	27	43
NOV												
22...	1630	287	755	8.6	.0	3.5	1.0	--	307	70	32	43
DEC												
30...	1410	297	650	7.8	11.0	.0	3.0	--	348	78	36	64
JAN												
05...	1140	230	605	7.9	--	.5	3.0	--	328	75	34	60
FEB												
25...	1715	1750	470	7.7	--	3.5	162	--	188	44	18	17
MAR												
30...	1130	5050	600	7.3	--	13.7	94	--	272	66	25	15
APR												
27...	1130	2070	645	7.1	--	14.9	30	--	340	79	34	13
MAY												
12...	1200	21500	420	7.1	--	19.1	146	--	198	47	19	9.6
JUN												
16...	1130	1470	690	6.9	--	23.3	31	--	317	73	32	20
JUL												
21...	1015	1810	530	7.1	32.5	28.5	97	--	265	58	28	12
AUG												
23...	0830	4360	480	7.1	--	21.5	84	--	234	55	23	8.2
SEP												
20...	1640	5090	610	6.9	--	20.0	68	--	304	70	31	13

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT												
08...	26	1.1	4.3	204	75	56	.4	8.3	437	.59	571	42
NOV												
22...	23	1.1	3.9	268	70	45	.3	7.3	452	.61	350	7
DEC												
30...	28	1.5	4.7	298	85	82	.4	9.2	565	.77	453	7
JAN												
05...	28	1.4	4.3	278	78	72	.4	8.5	522	.71	324	4
FEB												
25...	16	.5	5.5	134	42	30	.2	8.7	279	.38	1320	336
MAR												
30...	11	.4	2.8	198	57	31	.2	8.2	344	.47	4690	214
APR												
27...	8	.3	5.0	242	58	29	.3	8.7	412	.56	2300	73
MAY												
12...	9	.3	2.1	120	50	18	.2	8.5	243	.33	14100	284
JUN												
16...	12	.5	2.2	236	65	31	.3	10	384	.52	1520	81
JUL												
21...	9	.3	2.4	194	59	24	.3	8.2	327	.44	1600	239
AUG												
23...	7	.2	3.0	178	38	18	.2	10	269	.37	3170	234
SEP												
20...	9	.3	2.9	226	51	26	.2	10	355	.48	4880	205

05583000 SANGAMON RIVER NEAR OAKFORD, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT 08...	1.6	7.3	.46	.60	.84	.78	2.4	<100	300	0	0
NOV 22...	1.4	6.2	.23	.30	1.0	.91	2.8	<100	200	0	0
DEC 30...	1.0	4.6	1.7	2.3	1.2	1.0	3.2	<100	200	0	0
JAN 05...	.81	3.6	1.9	2.5	1.1	1.0	3.1	<100	200	0	0
FEB 25...	2.1	9.5	1.0	1.3	.39	.19	.60	<100	100	0	0
MAR 30...	5.5	25	.23	.30	.48	.13	.40	<100	100	0	0
APR 27...	7.3	33	.07	.10	.22	.16	.50	<100	100	0	0
MAY 12...	5.3	24	.07	.10	.19	.09	.30	<100	100	0	0
JUN 16...	4.1	18	.00	.00	.22	.19	.60	<100	100	0	0
JUL 21...	3.2	14	.00	.00	.32	.19	.60	<100	100	0	0
AUG 23...	3.3	15	.00	.00	.29	.19	.60	<100	100	0	0
SEP 20...	4.6	20	.07	.10	.22	.16	.50	<100	200	0	0

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 08...	0	700	0	<50	0	160	70	<50	110	0
NOV 22...	0	300	20	<50	0	350	340	<50	130	0
DEC 30...	0	400	30	<50	10	560	470	<50	160	0
JAN 05...	0	500	30	<50	10	660	630	<50	150	0
FEB 25...	10	11000	160	<50	0	520	130	<50	80	30
MAR 30...	0	9600	30	<50	0	600	20	<50	140	0
APR 27...	0	2300	20	<50	0	160	10	<50	130	0
MAY 12...	10	5500	120	<50	0	300	20	<50	150	0
JUN 16...	0	2300	10	<50	0	190	10	<50	120	0
JUL 21...	0	7400	10	<50	0	450	0	<50	100	0
AUG 23...	10	6300	40	<50	0	310	0	<50	90	0
SEP 20...	0	5000	90	<50	0	300	0	<50	160	20

05583000 SANGAMON RIVER NEAR OAKFORD, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	10.5	7.0	9.0	2.5	0.0	1.5	0.0	0.0	0.0
2	---	---	---	11.5	8.0	9.5	2.0	0.0	0.5	0.0	0.0	0.0
3	---	---	---	9.0	7.0	8.0	1.5	1.0	1.0	0.0	0.0	0.0
4	---	---	---	8.0	5.5	7.0	1.5	1.0	1.0	0.0	0.0	0.0
5	---	---	---	7.5	5.0	6.0	2.0	1.0	1.5	0.0	0.0	0.0
6	---	---	---	8.5	5.0	7.0	1.5	0.5	1.0	0.0	0.0	0.0
7	---	---	---	7.0	4.0	5.5	1.5	1.0	1.0	0.0	0.0	0.0
8	16.0	14.0	15.0	5.5	2.5	4.0	2.0	1.0	1.5	0.0	0.0	0.0
9	15.5	13.0	14.0	8.0	3.5	5.5	2.0	1.0	2.0	0.0	0.0	0.0
10	16.5	12.0	14.5	6.5	4.0	5.0	1.5	1.0	1.5	0.0	0.0	0.0
11	17.5	13.0	15.5	5.5	2.5	3.5	1.5	0.5	1.0	0.0	0.0	0.0
12	19.5	14.5	17.0	4.0	1.0	2.5	1.5	0.5	1.0	0.0	0.0	0.0
13	18.5	15.5	17.0	4.0	0.5	2.0	1.5	0.5	1.0	0.0	0.0	0.0
14	17.0	13.0	15.0	4.0	0.0	2.0	2.0	0.5	1.0	0.0	0.0	0.0
15	16.0	13.0	14.5	4.5	1.0	3.0	2.0	0.0	1.0	0.0	0.0	0.0
16	13.0	10.0	12.0	5.5	2.0	3.5	1.5	0.0	0.5	0.0	0.0	0.0
17	13.5	9.5	11.0	6.5	3.0	4.5	2.0	0.0	1.0	0.0	0.0	0.0
18	11.0	8.5	10.0	8.0	3.5	6.0	3.0	1.0	2.0	0.0	0.0	0.0
19	10.5	10.0	10.0	7.5	5.0	6.5	4.5	2.5	3.5	0.0	0.0	0.0
20	10.5	9.0	9.5	7.5	5.0	6.0	3.5	1.5	2.0	0.0	0.0	0.0
21	10.5	7.0	8.5	5.0	2.5	4.0	1.5	0.0	1.0	0.0	0.0	0.0
22	10.5	6.0	8.0	3.5	1.0	2.0	1.0	0.5	1.0	0.0	0.0	0.0
23	10.0	8.5	9.0	3.5	1.0	2.0	1.0	0.5	0.5	0.0	0.0	0.0
24	11.0	10.0	10.5	5.0	1.5	3.0	1.0	0.5	0.5	0.0	0.0	0.0
25	12.5	10.0	11.0	8.5	3.5	5.5	1.0	0.5	0.5	0.0	0.0	0.0
26	10.0	8.5	9.0	9.0	8.0	8.5	1.0	0.5	0.5	0.0	0.0	0.0
27	9.5	7.0	8.5	8.0	4.0	6.0	1.0	0.5	0.5	0.0	0.0	0.0
28	9.5	7.0	8.5	3.5	0.5	2.0	0.5	0.5	0.5	0.0	0.0	0.0
29	9.0	7.5	8.0	1.5	0.5	1.0	0.5	0.0	0.5	0.0	0.0	0.0
30	9.0	8.0	8.5	2.0	0.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
31	11.0	8.0	9.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	19.5	6.0	11.5	11.5	0.0	4.5	4.5	0.0	1.0	0.0	0.0	0.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	5.5	2.0	3.5	12.0	10.5	11.5	16.0	15.0	15.5
2	0.0	0.0	0.0	5.0	2.0	3.5	14.0	11.5	13.0	17.5	16.0	16.5
3	0.0	0.0	0.0	5.5	4.0	5.0	14.0	12.5	13.0	19.5	16.5	18.0
4	0.0	0.0	0.0	5.5	4.5	5.0	13.5	11.5	12.5	19.5	18.0	18.5
5	0.0	0.0	0.0	6.5	3.5	4.5	11.0	9.0	10.0	19.0	17.5	18.5
6	0.0	0.0	0.0	8.0	3.0	5.5	10.5	8.0	9.5	18.5	18.0	18.0
7	0.0	0.0	0.0	9.5	4.0	6.5	12.5	9.0	11.0	19.5	18.0	19.0
8	0.0	0.0	0.0	12.0	6.0	9.0	13.5	10.5	12.0	19.5	18.5	19.0
9	0.0	0.0	0.0	13.0	8.5	10.5	14.5	11.0	13.0	19.0	17.5	18.0
10	0.5	0.0	0.0	13.5	9.0	11.5	16.5	13.0	15.0	19.0	17.5	18.0
11	0.5	0.0	0.0	12.5	10.5	11.5	18.0	15.0	16.5	18.5	18.0	18.0
12	0.0	0.0	0.0	12.5	10.5	12.0	19.5	16.0	18.0	19.0	18.0	18.5
13	0.5	0.0	0.0	11.0	10.0	10.5	19.5	17.0	18.5	19.5	18.5	19.0
14	2.5	0.0	0.5	13.0	9.5	11.5	20.0	17.5	18.5	20.5	19.0	20.0
15	2.5	2.5	2.5	13.5	11.5	12.5	21.5	18.0	20.0	21.5	20.0	20.5
16	2.5	0.0	1.5	13.0	10.0	11.5	22.5	19.0	21.0	22.5	20.5	21.5
17	1.0	0.0	0.5	11.5	8.5	10.0	23.0	19.5	21.5	23.0	21.5	22.0
18	1.5	0.0	0.5	8.5	8.0	8.5	21.5	19.5	20.5	24.0	21.5	22.5
19	1.5	0.0	1.0	8.0	7.0	7.5	20.5	19.0	20.0	24.5	22.5	23.5
20	2.5	0.0	1.0	9.5	6.5	8.0	22.5	18.5	20.5	24.0	23.0	23.5
21	3.0	0.0	1.5	9.0	7.0	8.0	20.5	18.5	19.0	24.0	22.5	23.0
22	6.0	1.0	3.5	9.0	5.5	7.5	18.5	16.5	17.5	24.0	22.5	23.0
23	7.0	5.5	6.5	10.5	7.5	9.0	16.5	15.0	15.5	24.5	22.5	23.5
24	6.0	2.5	4.0	10.5	8.0	9.5	17.0	14.5	15.5	24.0	22.5	23.5
25	3.5	1.5	3.0	12.0	8.5	10.5	15.5	13.5	15.0	24.0	22.5	23.5
26	3.5	1.5	2.5	14.0	10.0	12.0	16.0	13.5	15.0	25.0	22.5	24.0
27	3.5	1.0	2.0	13.0	12.5	12.5	18.0	14.5	16.0	25.5	22.5	24.0
28	5.0	1.5	3.0	14.0	12.5	13.5	17.5	15.0	16.0	25.5	23.0	24.0
29	---	---	---	14.5	---	---	17.0	13.0	15.0	24.5	22.5	23.5
30	---	---	---	14.0	---	---	15.5	14.5	15.0	26.0	23.0	24.5
31	---	---	---	12.5	11.5	12.0	---	---	---	26.0	23.5	24.5
MONTH	7.0	0.0	1.0	14.5	2.0	9.0	23.0	8.0	16.0	26.0	15.0	21.0

05583000 SANGAMON RIVER NEAR OAKFORD, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.0	22.0	23.0	25.5	23.0	24.0	28.0	23.5	26.0	---	---	---
2	25.0	21.5	23.0	27.5	23.0	25.0	25.5	23.5	24.5	---	---	---
3	24.5	20.5	22.5	28.0	24.5	26.5	28.5	22.5	25.0	---	---	---
4	24.5	21.5	23.0	31.0	26.0	28.5	25.5	23.5	24.0	---	---	---
5	26.5	22.5	24.5	31.5	27.0	29.0	25.5	22.5	24.0	---	---	---
6	25.5	23.0	24.5	32.0	28.0	29.5	25.5	23.0	24.0	---	---	---
7	24.0	20.0	22.5	32.5	28.0	29.0	24.0	22.5	23.0	---	---	---
8	22.5	19.0	20.5	31.0	25.5	28.0	23.0	22.0	22.5	---	---	---
9	22.5	17.5	21.5	30.5	25.0	27.5	22.5	22.0	22.0	---	---	---
10	21.5	18.0	20.0	29.0	26.5	28.0	24.0	22.5	23.0	---	---	---
11	22.0	19.0	20.5	31.0	26.5	28.5	24.0	22.5	23.0	---	---	---
12	21.5	19.5	20.5	30.5	27.0	29.5	23.0	22.0	22.5	---	---	---
13	19.5	18.5	19.0	31.5	28.0	29.5	23.0	22.0	22.5	---	---	---
14	22.5	18.5	20.5	32.0	29.0	30.5	23.5	22.5	23.0	---	---	---
15	24.5	19.5	22.0	31.5	29.0	30.0	24.5	23.0	23.5	---	---	---
16	26.0	22.5	24.0	31.0	27.5	29.0	24.0	23.5	24.0	---	---	---
17	28.0	23.5	26.0	30.5	27.0	29.5	24.5	23.0	24.0	---	---	---
18	27.0	25.0	25.5	32.5	28.5	30.0	24.0	22.5	23.5	---	---	---
19	26.5	23.5	25.0	31.0	29.0	30.0	23.0	22.0	22.5	---	---	---
20	28.0	23.5	26.0	---	---	---	23.5	22.0	22.5	---	---	---
21	26.0	23.0	24.5	29.5	---	---	23.0	22.0	22.5	19.5	19.0	19.0
22	24.0	21.0	22.0	29.0	26.0	27.5	23.5	21.5	22.5	20.0	19.0	19.5
23	23.5	20.0	22.0	30.0	25.0	27.5	23.0	21.5	22.0	20.5	19.0	20.0
24	26.0	22.0	24.0	29.0	26.0	27.5	22.5	20.5	21.5	22.0	20.0	21.0
25	28.0	23.5	25.5	29.0	26.0	27.0	23.0	20.5	22.0	22.0	20.0	21.0
26	29.0	24.0	26.5	27.5	23.5	26.0	23.5	21.5	22.5	21.5	19.5	20.5
27	28.5	25.0	26.5	27.5	22.5	25.0	26.0	22.5	24.0	21.0	19.5	20.5
28	26.5	24.5	25.5	27.5	23.0	25.5	25.0	23.5	24.5	20.5	18.5	19.5
29	27.0	23.5	25.0	28.5	24.5	26.5	25.5	23.0	24.0	20.5	18.5	19.5
30	25.5	23.5	24.5	29.5	25.0	27.0	25.0	22.5	24.0	19.5	---	---
31	---	---	---	28.5	24.5	26.5	---	---	---	---	---	---
MONTH	29.0	17.5	23.5	32.5	22.5	28.0	28.5	20.5	23.5	22.0	18.5	20.0
YEAR	32.5	0.0	13.0									

05584400 DROWNING FORK AT BUSHNELL, IL

LOCATION.--Lat 40°33'45", long 90°31'23", in NE¼SE¼ sec.29, T.7 N., R.1 W., McDonough County, Hydrologic Unit 07130010, on right bank at downstream side of bridge, 200 ft (61 m) above Burlington Northern Railroad bridge and 1 mi (2 km) northwest of Bushnell.

DRAINAGE AREA.--26.3 mi² (68.1 km²).

PERIOD OF RECORD.--June 1960 to current year.

REVISED RECORDS.--WDR IL-75: 1971(M), Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 615.02 ft (187.458 m) above mean sea level.

REMARKS.--Records poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--17 years, 19.2 ft³/s (0.544 m³/s), 9.91 in/yr (252 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft³/s (46.7 m³/s) Sept. 24, 1960, gage height, 13.26 ft (4.042 m), from rating curve extended above 520 ft³/s (14.7 m³/s); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 171 ft³/s (4.84 m³/s) May 6, gage height, 8.34 ft (2.542 m), no peak above base of 240 ft³/s (6.8 m³/s); minimum daily discharge, 0.08 ft³/s (0.002 m³/s) Feb. 3-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.49	.56	.21	.09	1.8	13	7.4	7.4	2.3	.62	25
2	.18	.60	.56	.19	.09	1.3	13	7.7	7.0	1.6	.54	35
3	.18	.65	.56	.17	.08	2.7	9.2	8.1	6.5	1.6	.50	25
4	.49	.49	.56	.16	.08	2.2	8.0	11	6.4	1.0	.90	15
5	1.2	.49	.56	.15	.08	2.5	6.9	38	6.4	.87	7.6	10
6	.44	.49	.56	.14	.08	1.7	5.5	109	6.1	.71	15	8.0
7	.26	.49	.60	.13	.08	1.3	5.1	53	5.9	.42	5.1	6.4
8	.22	.60	.70	.12	.08	1.4	4.6	34	7.4	.54	39	5.0
9	.26	.54	.69	.12	.09	1.5	4.5	28	6.4	.73	34	4.0
10	.30	.60	.52	.12	.12	1.6	4.3	24	8.4	.56	20	3.5
11	.39	.60	.45	.12	.50	5.6	3.9	22	6.9	.52	14	3.0
12	.44	.49	.42	.12	1.5	28	3.4	20	6.0	.68	11	2.8
13	.65	.49	.39	.12	2.5	20	3.4	19	5.3	.49	8.2	12
14	.60	.39	.37	.12	1.5	13	3.2	17	5.0	.76	5.7	45
15	.44	.49	.36	.12	.90	10	2.9	16	4.4	.91	4.0	52
16	.26	.39	.35	.12	.60	7.9	2.7	15	7.0	1.3	4.5	57
17	.30	.44	.35	.12	.45	7.1	2.8	14	13	2.2	6.0	57
18	.26	.44	.35	.12	.40	7.1	2.9	13	10	1.5	7.0	55
19	.30	.44	.35	.12	.36	5.7	3.3	12	6.1	1.4	7.0	52
20	.30	.44	.35	.12	.34	5.3	2.9	11	4.6	1.5	4.5	50
21	.30	.44	.35	.12	.33	4.0	4.2	11	3.8	2.0	3.5	50
22	.34	.49	.35	.12	.40	4.0	3.7	10	3.8	.85	3.0	47
23	.49	.44	.35	.12	2.5	5.6	3.7	9.8	3.8	.70	2.7	49
24	.30	.49	.35	.12	10	6.1	3.7	9.4	3.5	.60	2.5	47
25	.49	.44	.35	.12	9.0	5.5	4.3	9.3	3.0	.56	5.0	46
26	.49	.77	.33	.12	4.5	4.7	4.8	9.0	2.4	.52	9.0	43
27	.44	.71	.32	.11	2.6	4.7	5.2	8.7	2.1	.50	14	39
28	.54	.65	.30	.11	2.1	10	5.7	9.5	2.7	.60	33	38
29	.54	.60	.28	.11	---	25	6.2	8.7	2.1	.70	45	38
30	.89	.56	.25	.10	---	20	7.0	8.1	3.1	.70	32	38
31	.49	---	.23	.10	---	15	---	7.7	---	.70	25	---
TOTAL	12.96	15.64	12.98	3.96	41.35	232.3	154.0	580.4	166.5	30.02	369.86	957.7
MEAN	.42	.52	.42	.13	1.48	7.49	5.13	18.7	5.55	.97	11.9	31.9
MAX	1.2	.77	.70	.21	10	28	13	109	13	2.3	45	57
MIN	.18	.39	.23	.10	.08	1.3	2.7	7.4	2.1	.42	.50	2.8
CFSM	.02	.02	.02	.005	.06	.29	.20	.71	.21	.04	.45	1.21
IN.	.02	.02	.02	.01	.06	.33	.22	.82	.24	.04	.52	1.35

CAL YR 1976 TOTAL 5675.06 MEAN 15.5 MAX 704 MIN .18 CFSM .59 IN 8.03
WTR YR 1977 TOTAL 2577.67 MEAN 7.06 MAX 109 MIN .08 CFSM .27 IN 3.65

05584500 LA MOINE RIVER AT COLMAR, IL

LOCATION.--Lat 40°19'45", long 90°53'55", in SE¼SW¼ sec.18, T.4 N., R.4 W., McDonough County, Hydrologic Unit 07130010, on right bank at upstream side of bridge on State Highway 61, 0.2 mi (0.3 km) downstream from Burlington Northern Railroad bridge, 1 mi (2 km) southwest of Colmar, and 1.8 mi (2.9 km) upstream from Troublesome Creek.

DRAINAGE AREA.--655 mi² (1,696 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 491.53 ft (149.819 m) above mean sea level. Prior to July 13, 1945, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--33 years, 429 ft³/s (12.15 m³/s), 8.89 in/yr (226 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,000 ft³/s (765 m³/s) Sept. 25, 1970, gage height, 25.14 ft (7.663 m); maximum gage height, 27.03 ft (8.239 m) Jan. 3, 1965, ice jam; no flow part of each day Dec. 8, 9, 12, 13, 17, 21, 1955, due to temporary dam upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,520 ft³/s (99.7 m³/s) May 6, gage height, 18.20 ft (5.547 m); minimum daily, 2.8 ft³/s (0.079 m³/s) July 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 197
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	17	7.8	5.6	4.1	48	174	22	42	40	624	549
2	9.3	17	7.6	5.4	4.0	44	132	24	38	27	131	409
3	7.7	13	7.4	5.2	4.0	52	112	25	33	19	52	330
4	7.1	14	7.2	5.0	4.0	48	101	28	30	11	23	221
5	12	16	7.2	5.0	4.0	47	88	300	27	9.3	32	122
6	58	20	7.2	5.0	4.0	45	85	2600	25	7.7	46	70
7	40	11	7.2	5.0	4.0	42	79	2490	25	6.9	352	60
8	44	11	7.1	5.0	4.0	38	67	1460	25	6.4	1200	48
9	29	12	7.1	5.0	4.5	35	58	655	24	6.0	2020	41
10	18	7.7	7.0	5.0	6.0	38	51	366	23	6.2	1190	97
11	14	12	7.0	5.0	10	53	47	269	23	5.6	596	438
12	11	11	7.0	5.0	35	287	44	234	23	5.4	280	404
13	8.1	8.6	7.0	5.0	80	364	41	244	22	4.9	127	342
14	9.8	9.0	7.0	5.0	74	219	39	189	22	4.8	81	295
15	7.1	11	7.0	5.0	45	147	39	155	21	4.9	63	907
16	7.1	11	7.0	5.0	30	115	39	135	21	4.9	54	1220
17	12	11	7.0	5.0	20	76	36	111	22	4.9	44	1160
18	9.0	12	7.0	5.0	17	57	32	98	21	4.3	36	1020
19	7.5	12	7.0	5.0	16	49	30	106	21	3.5	28	845
20	7.1	13	7.0	5.0	15	47	31	138	22	3.5	60	695
21	7.3	13	7.0	4.9	14	45	34	118	21	3.6	351	510
22	9.5	14	7.0	4.8	16	48	75	99	20	3.5	100	358
23	9.5	12	7.0	4.7	50	54	64	84	20	3.4	48	215
24	11	11	7.0	4.7	250	53	52	72	19	3.2	33	137
25	11	15	7.0	4.6	200	59	43	61	17	3.5	22	117
26	11	16	6.8	4.6	130	53	36	56	15	3.5	16	168
27	10	14	6.6	4.5	93	47	31	51	13	3.4	60	374
28	12	9.8	6.4	4.5	65	260	28	77	14	3.2	600	222
29	15	9.0	6.2	4.4	---	799	26	180	45	2.8	1060	64
30	12	8.2	6.0	4.3	---	616	23	108	54	18	838	27
31	12	---	5.8	4.2	---	289	---	52	---	532	677	---
TOTAL	450.1	371.3	215.6	151.4	1202.6	4176	1737	10585	748	766.3	10842	11425
MEAN	14.5	12.4	6.95	4.88	43.0	135	57.9	341	24.9	24.7	350	381
MAX	58	20	7.8	5.6	250	799	174	2600	54	532	2020	1220
MIN	7.1	7.7	5.8	4.2	4.0	35	23	22	13	2.8	16	27
CFSM	.02	.02	.01	.007	.07	.21	.09	.52	.04	.04	.53	.58
IN.	.03	.02	.01	.01	.07	.24	.10	.60	.04	.04	.62	.65

CAL YR 1976 TOTAL 103845.3 MEAN 284 MAX 11700 MIN 2.9 CFSM .43 IN 5.90
WTR YR 1977 TOTAL 42668.3 MEAN 117 MAX 2600 MIN 2.8 CFSM .18 IN 2.42

05584500 LA MOINE RIVER AT COLMAR, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)
OCT											
14...	1630	10	480	7.0	--	14.5	24	11.6	32	1000	800
20...	1545	13	700	7.4	--	5.9	9.5	--	26	98	220
NOV											
10...	1600	8.4	630	6.7	--	3.4	6.9	8.8	34	1200	1000
DEC											
01...	1400	7.8	690	7.2	--	2.3	20	9.6	21	B70	270
07...	1440	7.2	750	6.8	--	.1	9.2	5.0	15	B32	220
JAN											
05...	1600	5.0	930	7.0	--	.1	7.2	10.6	22	B2	93
19...	1030	5.0	960	6.8	--	.0	27	5.6	29	B2	92
FEB											
02...	1630	4.0	980	6.8	--	.0	9.5	4.5	14	21	51
16...	1500	74	320	7.0	--	.3	26	11.8	110	3200	B110000
MAR											
02...	0910	35	430	7.6	--	.3	10	13.4	55	B18	7000
15...	1335	148	520	6.2	--	9.6	65	10.2	51	B1600	B130000
29...	1550	850	470	6.5	--	13.5	150	9.0	92	B33000	B94000
APR											
12...	1200	44	530	6.8	20.5	20.9	15	17.0	33	180	380
26...	1650	35	545	7.3	--	15.2	35	15.0	25	B240	270
MAY											
10...	1600	337	430	6.8	--	16.7	100	7.9	60	6000	21000
JUN											
01...	1430	30	510	6.6	20.0	22.7	10	7.3	30	130	160
14...	1540	21	650	7.3	--	21.1	15	6.3	33	210	300
28...	1225	13	610	6.9	--	25.0	5.0	8.4	35	670	1200
JUL											
12...	1535	4.5	650	6.9	--	27.1	5.0	9.4	30	140	B130
27...	1350	3.2	555	7.9	--	35.6	5.0	12.6	90	110	160
AUG											
09...	1930	2130	120	5.1	--	21.7	70	5.6	95	52000	2200
22...	1655	55	460	6.7	--	23.4	10	11.4	45	10000	9700
SEP											
06...	1740	76	434	6.9	--	24.3	75	7.9	35	62000	3500
20...	1605	641	492	6.8	10.5	10.5	120	9.1	35	6600	3800

DATE	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT										
14...	57	21	20	4.4	240	0	190	38	55	22
JAN										
05...	85	39	50	4.7	360	0	290	58	88	64
APR										
12...	57	26	20	4.0	230	0	190	58	74	20
JUL										
12...	--	--	--	--	320	0	260	64	37	26

B Results based on colony count outside acceptable range (non-ideal colony count).

05584500 LA MOINE RIVER AT COLMAR, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT							
14...	317	.43	8.56	73	.02	.15	1.1
20...	398	.54	14.0	19	.01	.17	.56
NOV							
10...	402	.55	9.12	10	.03	.07	.56
DEC							
01...	455	.62	9.58	103	.07	.07	.63
07...	823	1.12	16.0	10	.09	.07	.43
JAN							
05...	554	.75	7.48	12	.03	.05	.58
19...	562	.76	7.59	76	.32	.40	.80
FEB							
02...	542	.74	5.85	32	.22	.98	.62
14...	251	.34	50.1	119	2.0	1.2	2.5
MAR							
02...	276	.38	26.1	45	1.7	1.0	1.8
15...	303	.41	121	160	3.2	.55	1.1
29...	305	.41	700	544	1.3	.77	2.1
APR							
12...	334	.45	39.0	61	.37	.25	1.3
26...	338	.46	31.9	120	.86	.32	1.3
MAY							
10...	293	.40	267	410	7.5	.13	1.8
JUN							
01...	324	.44	33.2	252	3.6	.12	.98
14...	352	.48	20.0	51	1.2	.23	1.6
20...	356	.48	12.5	92	.00	.01	1.5
JUL							
12...	382	.52	4.64	64	.01	.12	1.3
27...	379	.52	3.27	102	.00	.11	1.9
AUG							
09...	102	.14	507	411	1.1	.15	.29
22...	310	.42	46.5	254	1.1	.25	1.8
SEP							
06...	271	.37	55.6	154	2.6	.05	.95
20...	309	.42	535	201	6.3	.05	1.2

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT						
14...	1.2	1.2	5.4	.22	1700	13
20...	.73	.74	3.3	.16	1600	11
NOV						
10...	.63	.66	2.9	.20	2400	10
DEC						
01...	.70	.77	3.4	.17	2500	9.1
07...	.50	.59	2.6	.12	1900	8.2
JAN						
05...	.63	.66	2.9	.08	1900	9.4
19...	1.2	1.5	6.7	.10	2000	8.0
FEB						
02...	1.6	1.8	8.1	.09	1500	9.0
14...	3.7	5.7	25	1.2	6300	27
MAR						
02...	2.8	4.5	20	.29	2300	17
15...	1.6	4.8	21	.37	4400	8.0
29...	2.9	4.2	19	.50	10000	21
APR						
12...	1.5	1.9	8.3	.14	1300	14
26...	1.6	2.5	11	.23	2600	17
MAY						
10...	1.9	9.4	42	.40	10000	13
JUN						
01...	1.1	4.7	21	.26	6100	9.4
14...	1.8	3.0	13	.20	1600	7.2
20...	1.5	1.5	6.6	.17	3100	6.0
JUL						
12...	1.4	1.4	6.2	.27	2100	6.5
27...	2.0	2.0	8.9	.44	5000	4.2
AUG						
09...	.44	1.5	6.8	1.2	25000	11
22...	2.0	3.1	14	1.5	6200	11
SEP						
06...	1.0	3.6	16	.36	5200	15
20...	1.2	7.5	33	.55	6400	27

05585000 LA MOINE RIVER AT RIPLEY, IL

LOCATION.--Lat 40°01'31", long 90°37'55", in NE¼ sec.33, T.1 N., R.2 W., Brown County, Hydrologic Unit 07130010, on right bank 600 ft (183 m) downstream from bridge on U.S. Highway 24, 0.2 mi (0.3 km) east of Ripley and 2 mi (3 km) upstream from Town Branch.

DRAINAGE AREA.--1,293 mi² (3,349 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1921 to current year. Prior to October 1931 published as Crooked Creek at Ripley.

REVISED RECORDS.--WSP 975: 1936. WSP 1208: 1925, 1929, 1933. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 431.1 ft (131.40 m) above mean sea level. Prior to July 28, 1926, nonrecording gage at site 200 ft (61 m) upstream at datum 0.02 ft (0.006 m) higher. July 28, 1926, to Jan. 11, 1935, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--56 years, 770 ft³/s (21.81 m³/s), 8.09 in/yr (205 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,100 ft³/s (683 m³/s) Sept. 27, 1970, gage height, 28.42 ft (8.662 m); minimum, 3.9 ft³/s (0.11 m³/s) Oct. 21, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,500 ft³/s (130 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 6	1200	*7110	201	*22.26	6.785	Sept. 13	0315	5200	147	19.71	6.008

Minimum daily discharge, 15 ft³/s (0.42 m³/s) Aug. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	23	23	17	16	122	486	50	121	29	15	386
2	31	42	21	17	16	104	359	135	93	28	627	468
3	26	39	20	17	16	93	275	118	79	27	427	581
4	22	38	19	17	16	98	222	343	71	26	146	355
5	25	45	18	17	16	98	202	1270	65	31	88	405
6	52	41	18	17	16	90	179	5410	62	28	68	363
7	40	37	18	17	16	85	163	6260	57	48	287	208
8	93	34	18	17	16	78	152	4410	57	79	1210	151
9	66	42	18	17	17	75	137	1940	57	36	2840	121
10	53	41	18	17	20	71	122	949	53	27	3150	100
11	52	34	18	17	45	142	112	566	53	25	2680	85
12	39	32	18	17	100	1660	102	416	52	26	1590	142
13	30	30	18	17	200	879	91	318	52	23	636	4370
14	25	29	18	17	300	593	84	318	52	22	373	3910
15	20	30	18	17	180	414	81	299	51	21	1160	2310
16	28	32	18	17	120	272	78	263	49	19	356	1880
17	23	30	18	17	84	207	76	236	45	19	222	1300
18	30	29	18	17	70	210	73	212	43	19	144	1110
19	23	31	18	17	66	153	68	190	39	19	113	1800
20	20	32	18	17	62	133	64	174	38	18	94	1580
21	20	33	18	16	60	120	62	162	37	21	472	1150
22	22	34	18	16	70	117	75	150	50	22	468	870
23	28	34	18	16	200	117	96	140	46	20	311	691
24	27	33	18	16	800	118	129	130	43	19	157	832
25	25	34	18	16	660	118	116	124	38	19	97	684
26	23	37	18	16	400	112	93	121	34	18	74	709
27	23	38	17	16	324	113	74	144	30	17	61	600
28	25	34	17	16	168	868	65	129	30	17	107	489
29	33	30	17	16	---	1910	57	108	30	17	1880	414
30	27	26	17	16	---	1350	50	142	29	16	1540	486
31	23	---	17	16	---	844	---	206	---	16	748	---
TOTAL	1013	1024	564	516	4076	11364	3943	25433	1556	772	22221	28550
MEAN	32.7	34.1	18.2	16.6	146	367	131	820	51.9	24.9	717	952
MAX	93	45	23	17	800	1910	486	6260	121	79	3150	4370
MIN	20	23	17	16	16	71	50	50	29	16	15	85
CFSM	.03	.03	.01	.01	.11	.28	.10	.63	.04	.02	.56	.74
IN.	.03	.03	.02	.01	.12	.33	.11	.73	.04	.02	.64	.82

CAL YR 1976 TOTAL 195216.5 MEAN 533 MAX 12200 MIN 9.5 CFSM .41 IN 5.62
WTR YR 1977 TOTAL 101030.0 MEAN 277 MAX 6260 MIN 15 CFSM .21 IN 2.91

05585000 LA MOINE RIVER AT RIPLEY, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM .7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)
OCT											
14...	1400	25	520	6.4	--	13.4	25	9.4	20	580	700
28...	1330	25	560	8.6	--	5.0	14	10.1	50	72	100
NOV											
09...	1300	44	610	6.8	--	4.9	9.3	9.6	27	410	640
DEC											
01...	1200	23	660	7.5	--	.9	18	11.9	13	B80	320
07...	1215	18	690	7.3	-6.0	.1	2.5	4.9	18	B13	150
JAN											
05...	1300	17	870	7.1	--	.1	4.6	9.8	18	B5	80
18...	1250	17	850	--	--	.0	13	3.9	10	B3	100
FEB											
02...	1230	16	840	6.8	--	.0	4.6	4.9	14	B19	B7
14...	1300	300	340	6.9	--	.8	45	11.8	110	2400	B120000
MAR											
02...	1105	105	400	7.5	--	1.0	28	13.0	63	B55	9000
15...	1135	416	550	7.0	--	9.5	85	10.0	47	B1700	52000
29...	1345	1810	390	6.0	--	12.8	270	9.3	120	22000	B71000
APR											
11...	1200	112	600	6.9	--	18.6	25	15.0	33	90	2600
26...	1505	85	690	7.2	25.0	16.5	45	15.7	41	2000	420
MAY											
10...	1200	929	380	6.9	--	17.1	200	7.6	90	15000	69000
31...	1345	209	480	6.9	25.5	25.4	35	8.5	20	550	720
JUN											
14...	1400	51	570	7.3	--	20.7	4.0	10.0	24	B100	270
27...	1600	30	640	7.4	32.0	27.0	5.0	15.8	35	120	B65
JUL											
12...	1355	25	690	7.1	--	27.3	6.0	6.5	30	1400	500
27...	1125	17	530	7.4	--	24.3	5.0	7.7	30	290	400
AUG											
09...	1755	3170	142	4.9	--	22.0	85	4.7	150	B70000	120000
22...	1525	524	400	5.9	--	23.5	300	6.3	75	140000	48000
SEP											
06...	1630	308	420	6.5	--	24.9	220	7.7	40	B6500	4900
19...	1530	1900	460	6.8	19.5	20.4	24	7.3	70	66000	82000

DATE	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT										
14...	53	20	26	4.4	190	0	150	121	80	30
JAN										
05...	76	31	53	4.8	350	0	290	44	66	65
APR										
11...	72	26	20	4.8	230	0	190	46	98	27
JUL										
12...	--	--	--	--	300	0	250	38	40	29

B Results based on colony count outside acceptable range (non-ideal colony count).

05585000 LA MOINE RIVER AT RIPLEY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT							
14...	334	.45	22.5	72	.64	.22	.28
28...	298	.41	20.1	75	.07	.23	.60
NOV							
09...	397	.54	47.2	15	.12	.35	.65
DEC							
01...	394	.54	24.5	14	.66	.27	.63
07...	436	.59	21.2	53	.76	.63	.57
JAN							
05...	470	.64	21.6	7	.83	1.2	.70
18...	453	.62	20.8	45	.66	1.0	.60
FEB							
02...	453	.62	19.6	5	.33	1.3	.50
14...	211	.29	171	296	1.6	1.2	1.6
MAR							
02...	255	.35	72.3	75	1.8	1.0	1.9
15...	357	.49	401	322	1.5	.63	1.4
29...	--	--	--	1150	1.3	.33	2.7
APR							
11...	398	.54	120	76	1.4	.31	.79
26...	486	.66	112	132	.03	.02	2.0
MAY							
10...	233	.32	584	831	5.6	.13	3.6
31...	324	.44	183	104	2.8	.06	.78
JUN							
14...	322	.44	44.3	101	.11	.15	1.6
27...	361	.49	29.2	57	.02	.01	1.1
JUL							
12...	384	.52	25.9	66	.00	.02	1.2
27...	351	.48	16.1	60	.01	.06	.94
AUG							
09...	143	.19	1220	319	1.2	.38	21
22...	290	.39	410	961	2.3	.24	2.6
SEP							
06...	258	.35	215	295	2.7	.09	1.1
19...	306	.42	1570	1160	4.3	.16	2.9

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT						
14...	.50	1.1	5.0	.20	1500	8.3
28...	.83	.90	4.0	.19	2300	7.3
NOV						
09...	1.0	1.1	5.0	.21	1900	11
DEC						
01...	.90	1.6	6.9	.21	2100	9.0
07...	1.2	2.0	8.7	.16	1500	7.3
JAN						
05...	1.9	2.7	12	.13	1300	7.2
18...	1.6	2.3	10	.05	750	6.0
FEB						
02...	1.8	2.1	9.4	.05	600	8.0
14...	2.8	4.4	19	.90	2900	24
MAR						
02...	2.9	4.7	21	.31	3500	18
15...	2.0	3.5	16	.26	5700	9.2
29...	3.0	4.3	19	.55	30000	30
APR						
11...	1.1	2.5	11	.12	1500	8.2
26...	2.0	2.0	9.0	.40	2800	12
MAY						
10...	3.7	9.3	41	.73	21000	10
31...	.84	3.6	16	.17	3300	7.1
JUN						
14...	1.7	1.8	8.0	.19	3500	11
27...	1.1	1.1	5.0	.15	1900	5.4
JUL						
12...	1.2	1.2	5.3	.24	2000	6.0
27...	1.0	1.0	4.5	.18	2400	5.1
AUG						
09...	21	22	98	.88	53000	9.4
22...	2.8	5.1	23	.65	34000	15
SEP						
06...	1.2	3.9	17	.41	11000	15
19...	3.1	7.4	33	1.2	2300	25

05585300 ILLINOIS RIVER AT LOCK & DAM AT LA GRANGE, IL

LOCATION.--Lat 39°56'24", long 90°32'06", in sec.7, T.17 N., R.1 W., Brown County, Hydrologic Unit 07130011, on right lock wall of La Grange navigation lock and dam, 5.2 mi (8.4 km) downstream from La Moine River and at mile 80.2 (129.0 km).

DRAINAGE AREA.--25,000 mi² (65,000 km²), approximately.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1968 to September 1977 (discontinued).

INSTRUMENTATION.--Temperature recorder since June 1968.

REMARKS.--Records represent water temperature at monitor probe within 0.5°C. Temperature at the sensor was compared to the average for the river by temperature cross-section June 13.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 32.0°C July 15-17, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 32.0°C July 15-17; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.5	18.0	18.0	8.0	7.5	7.5	1.5	1.0	1.0	0.0	0.0	0.0
2	18.5	18.0	18.5	8.0	8.0	8.0	1.5	1.0	1.5	0.0	0.0	0.0
3	19.0	18.5	18.5	8.0	7.5	7.5	1.5	0.5	1.0	0.0	0.0	0.0
4	19.0	18.5	18.5	8.0	7.5	7.5	1.0	0.5	0.5	0.0	0.0	0.0
5	19.0	18.0	18.5	7.5	7.0	7.5	0.5	0.0	0.5	0.0	0.0	0.0
6	18.0	17.0	17.5	7.0	7.0	7.0	1.0	0.5	0.5	0.0	0.0	0.0
7	17.0	16.5	16.5	7.0	6.5	7.0	1.0	0.5	0.5	0.0	0.0	0.0
8	16.5	15.5	16.0	6.5	6.0	6.5	0.5	0.0	0.0	0.5	0.0	0.0
9	16.0	15.0	15.5	6.0	6.0	6.0	0.5	0.0	0.5	0.5	0.0	0.0
10	15.5	15.0	15.5	6.0	6.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0
11	15.5	15.0	15.5	6.0	5.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0
12	15.5	15.0	15.5	5.5	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
13	16.0	15.5	15.5	5.0	4.5	5.0	0.5	0.0	0.0	0.0	0.0	0.0
14	15.5	15.0	15.0	4.5	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
15	15.0	14.5	15.0	4.5	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
16	14.5	14.0	14.0	4.5	4.0	4.0	0.5	0.0	0.0	0.0	0.0	0.0
17	14.0	13.0	13.5	4.5	4.0	4.0	0.5	0.0	0.5	0.0	0.0	0.0
18	13.0	12.0	12.5	4.5	4.0	4.5	1.0	0.5	0.5	0.0	0.0	0.0
19	12.5	11.0	11.5	5.0	4.5	5.0	2.0	1.0	1.5	0.0	0.0	0.0
20	11.0	10.5	11.0	5.0	4.5	5.0	2.0	0.5	1.5	0.0	0.0	0.0
21	10.5	10.0	10.5	5.0	4.5	5.0	1.0	0.0	0.5	0.0	0.0	0.0
22	10.0	9.5	10.0	5.0	4.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0
23	10.0	9.0	9.5	4.0	3.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
24	9.5	9.0	9.0	3.5	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
25	9.0	9.0	9.0	4.5	3.0	3.5	0.0	0.0	0.0	0.5	0.0	0.0
26	9.0	8.5	9.0	5.0	4.5	4.5	0.0	0.0	0.0	0.5	0.0	0.5
27	8.5	8.0	8.5	5.0	4.5	4.5	0.0	0.0	0.0	0.5	0.0	0.5
28	8.5	8.0	8.0	4.5	3.5	4.0	0.0	0.0	0.0	1.0	0.0	0.0
29	8.0	7.5	7.5	3.5	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
30	7.5	7.0	7.5	1.5	1.0	1.5	0.0	0.0	0.0	0.5	0.0	0.0
31	7.5	7.5	7.5	---	---	---	0.0	0.0	0.0	0.5	0.0	0.0
MONTH	19.0	7.0	13.0	8.0	1.0	5.0	2.0	0.0	0.5	1.0	0.0	0.0

05585300 ILLINOIS RIVER AT LOCK & DAM AT LA GRANGE, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMRER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.5	0.0	0.5	2.0	1.5	1.5	11.0	10.5	11.0	17.0	16.5	16.5
2	0.5	0.0	0.5	2.5	1.5	2.0	11.5	11.0	11.5	17.0	17.0	17.0
3	0.5	0.0	0.5	3.5	2.5	3.0	11.5	10.0	11.0	18.0	17.0	17.5
4	0.5	0.5	0.5	4.0	3.5	3.5	11.0	11.0	11.0	18.5	18.0	18.0
5	0.5	0.0	0.5	4.0	3.5	4.0	11.0	10.0	10.5	19.5	18.5	19.0
6	0.5	0.0	0.5	4.5	4.0	4.5	10.0	9.5	10.0	19.5	19.0	19.5
7	0.5	0.0	0.5	5.5	4.5	5.0	10.0	9.5	9.5	20.5	19.5	20.0
8	0.5	0.0	0.5	6.0	5.0	5.5	10.0	9.0	9.5	20.5	20.0	20.5
9	0.5	0.0	0.5	7.0	6.0	6.5	10.0	9.0	9.5	20.0	19.5	19.5
10	0.5	0.5	0.5	7.5	7.0	7.0	12.0	10.0	11.0	19.5	19.0	19.0
11	0.5	0.5	0.5	8.5	7.5	8.0	13.5	12.0	13.0	19.5	18.5	19.0
12	0.5	0.5	0.5	8.5	8.0	8.5	15.5	13.5	14.5	19.5	19.0	19.0
13	0.5	0.0	0.5	8.5	8.5	8.5	16.5	15.5	16.0	20.5	19.0	19.5
14	0.5	0.0	0.0	9.5	8.5	9.0	17.5	16.5	17.0	21.5	20.0	20.5
15	0.5	0.0	0.0	10.0	9.5	9.5	18.5	17.5	18.0	22.5	21.0	22.0
16	0.0	0.0	0.0	10.0	9.5	9.5	19.5	18.5	19.0	23.0	22.0	22.5
17	0.0	0.0	0.0	10.0	9.0	9.5	20.0	19.5	19.5	24.0	23.0	23.5
18	0.0	0.0	0.0	9.0	8.5	9.0	20.0	19.5	20.0	24.5	23.5	24.0
19	0.0	0.0	0.0	8.5	8.0	8.5	20.0	19.5	20.0	25.5	24.5	24.5
20	0.5	0.0	0.5	8.0	8.0	8.0	20.5	19.5	20.0	25.5	25.0	25.0
21	0.5	0.5	0.5	8.0	8.0	8.0	20.5	20.0	20.0	25.5	25.0	25.0
22	2.0	0.5	1.5	7.5	7.0	7.5	20.0	19.0	19.5	25.0	24.5	24.5
23	3.0	2.0	3.0	7.5	7.5	7.5	19.0	18.0	18.5	25.5	24.5	25.0
24	3.0	3.0	3.0	8.0	7.5	7.5	18.0	17.5	18.0	26.0	25.0	25.5
25	3.0	2.5	3.0	8.5	7.5	8.0	17.5	17.0	17.5	26.0	25.5	26.0
26	3.0	2.0	2.5	9.0	8.0	8.5	17.0	16.5	17.0	26.5	26.0	26.5
27	2.0	2.0	2.0	9.0	9.0	9.0	17.5	16.5	17.0	27.0	26.5	26.5
28	2.0	1.5	2.0	10.5	9.0	9.5	17.5	17.0	17.5	27.0	26.5	27.0
29	---	---	---	11.5	10.5	11.0	17.0	16.0	16.5	27.0	26.5	26.5
30	---	---	---	12.0	11.5	11.5	16.5	16.0	16.0	27.0	26.5	26.5
31	---	---	---	12.0	11.0	11.0	---	---	---	27.0	26.5	27.0
MONTH	3.0	0.0	1.0	12.0	1.5	7.5	20.5	9.0	15.5	27.0	16.5	22.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.5	25.5	26.0	27.0	26.5	26.5	28.5	27.5	28.0	26.5	26.0	26.0
2	26.0	25.5	26.0	27.0	26.5	26.5	28.0	27.5	27.5	26.5	26.0	26.5
3	26.0	25.5	25.5	27.5	27.0	27.5	27.5	26.5	26.5	27.0	26.0	26.5
4	25.5	25.0	25.5	28.5	27.5	28.0	26.5	26.0	26.5	27.0	26.5	26.5
5	26.0	25.0	25.5	29.0	28.0	28.5	26.5	26.0	26.0	26.5	26.5	26.5
6	26.5	26.0	26.0	29.5	28.5	29.0	26.5	26.0	26.0	26.5	26.5	26.5
7	26.0	25.0	25.5	30.0	29.0	29.5	26.0	25.5	26.0	26.5	26.0	26.0
8	25.0	23.5	24.5	30.0	29.5	29.5	25.5	23.5	24.5	26.5	26.0	26.5
9	23.5	23.0	23.5	30.5	29.0	29.5	24.0	23.5	23.5	26.5	25.5	26.0
10	23.5	23.0	23.0	29.5	29.5	29.5	23.5	23.0	23.0	26.0	25.0	25.0
11	24.0	23.5	23.5	29.5	29.5	29.5	23.5	23.5	23.5	25.0	24.0	24.5
12	24.0	23.5	23.5	30.0	29.0	29.5	23.5	23.0	23.5	24.5	23.5	24.0
13	23.5	22.5	23.0	31.0	29.5	30.0	24.5	23.5	24.0	23.5	21.5	22.0
14	23.0	22.5	22.5	31.5	30.5	31.0	24.5	24.5	24.5	21.5	21.0	21.0
15	23.5	22.5	23.0	32.0	31.0	31.5	25.0	24.5	24.5	21.0	20.5	21.0
16	24.5	23.5	24.0	32.0	31.0	31.5	25.5	25.0	25.5	20.5	20.5	20.5
17	25.5	24.5	25.0	32.0	31.0	31.5	26.0	25.5	25.5	20.5	20.5	20.5
18	26.0	25.5	25.5	31.5	31.0	31.5	26.0	25.5	25.5	21.0	20.5	20.5
19	26.0	25.5	25.5	31.5	30.5	31.0	25.5	25.0	25.5	21.0	20.5	20.5
20	26.5	25.5	25.5	31.5	31.0	31.0	25.5	24.5	25.0	20.5	20.0	20.0
21	26.5	26.0	26.0	31.5	30.5	31.0	24.5	24.5	24.5	20.5	20.0	20.0
22	26.5	25.5	26.0	30.5	29.5	30.0	25.0	24.0	24.5	20.0	19.5	19.5
23	25.5	25.0	25.5	30.0	29.0	29.5	25.0	24.5	24.5	20.0	19.5	19.5
24	26.0	25.0	25.5	29.5	29.0	29.5	24.5	24.0	24.0	20.5	20.0	20.0
25	26.5	25.5	26.0	29.5	29.0	29.0	24.5	23.5	24.0	20.5	20.0	20.0
26	28.0	26.5	27.0	29.0	28.5	28.5	24.5	24.0	24.0	20.5	20.0	20.5
27	28.0	27.0	27.5	28.5	27.0	28.0	25.5	24.5	24.5	20.5	20.0	20.0
28	28.0	27.5	28.0	28.0	27.5	28.0	25.5	25.5	25.5	20.5	20.0	20.0
29	28.0	27.0	27.5	28.5	27.5	28.0	25.5	25.0	25.5	20.0	19.5	20.0
30	27.5	27.0	27.0	28.5	28.0	28.0	25.5	25.0	25.0	20.0	19.5	20.0
31	---	---	---	28.5	28.0	28.0	26.0	25.0	25.5	---	---	---
MONTH	28.0	22.5	25.5	32.0	26.5	29.5	28.5	23.0	25.0	27.0	19.5	22.5
YEAR	32.0	0.0	14.0									

05585500 ILLINOIS RIVER AT MEREDOSIA, IL

LOCATION.--Lat 39°49'24", long 90°34'05", in SE¼ sec.21, T.16 N., R.13 W., Morgan County, Hydrologic Unit 07130011, on left bank in the crib house of Central Illinois Public Service Company in Meredosia, 0.6 mi (1.0 km) downstream from bridge on State Highway 104, 3.9 mi (6.3 km) upstream from McKee Creek, and at mile 70.8 (113.9 km).

DRAINAGE AREA.--26,028 mi² (67,413 km²).

PERIOD OF RECORD.--October 1938 to current year. October 1933 to September 1938 in reports of Mississippi River Commission.

REVISED RECORDS.--WSP 895: 1939. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 418.00 ft (127.406 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 19, 1962, water-stage recorder at site 0.3 mi (0.5 km) upstream at same datum. Since Nov. 11, 1938, auxiliary water-stage recorder at Norfolk & Western Railway bridge, 0.4 mi (0.6 km) southeast of Valley City, 9.5 mi (15.3 km) downstream and at mile 61.3 (98.6 km).

REMARKS.--Records fair. Since Jan. 17, 1900, flow has included diversion from Lake Michigan through Chicago Sanitary and Ship Canal. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--39 years, 21,062 ft³/s (596.5 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 123,000 ft³/s (3,480 m³/s) May 26-28, 1943; maximum gage height, 28.61 ft (8.720 m) May 26, 1943; minimum daily discharge, 1,740 ft³/s (49.3 m³/s) Oct. 12, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 45,900 ft³/s (1,300 m³/s) May 12; maximum gage height, 13.81 ft (4.209 m) May 7; minimum daily discharge, 3,930 ft³/s (111 m³/s) Nov. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6100	6100	7000	8980	8500	17000	22700	11400	10500	7600	6540	9740
2	5910	5130	7350	9490	8500	15800	22800	11200	9690	8580	6460	14400
3	5990	3930	6880	8160	8500	15500	23500	12200	9160	10800	6050	17100
4	5810	4360	6290	8110	8000	15300	23900	11400	8530	11700	5990	21300
5	5820	5340	6320	9210	8000	14800	24000	20400	7930	10900	6000	18500
6	6120	5990	6170	10400	8000	14900	23700	24600	7060	10300	6510	16900
7	6420	6080	6660	13100	8000	14600	23400	29900	7660	9800	11400	18300
8	6480	6420	6960	13900	7500	14700	23300	30500	7370	10200	18200	18100
9	6500	5720	6780	15000	7500	13100	22600	33800	7230	10000	20700	16300
10	6590	6070	6390	14700	7000	12900	22000	37100	8330	8770	21600	12700
11	6450	6010	6100	14500	9350	13200	21400	40500	9180	8700	22800	11700
12	5800	5820	6450	13300	10100	16500	17400	41500	9370	8630	24200	12100
13	5640	6310	6700	12300	11700	17100	15400	41600	9380	8110	24600	14000
14	6450	6020	7150	11200	11800	16800	13900	40500	9000	8180	24900	16700
15	6140	6330	5690	12600	12400	16200	13400	39100	9490	8160	25000	19100
16	5400	5910	5810	13300	10500	14900	13800	37100	9100	8140	25400	20400
17	5150	6040	6490	14400	[illegible]	15700	12800	34600	8930	8730	24700	21200
18	5030	6320	7670	14500	[illegible]	16000	13000	31100	8980	9570	23900	22700
19	5410	6130	7720	15000	[illegible]	15600	13200	26700	8660	9570	22500	24400
20	5580	5920	6950	14800	[illegible]	15400	12200	23000	9430	9290	19400	27000
21	5440	5780	7940	12000	11600	16200	11700	17700	9050	8690	16000	28500
22	4910	6010	7590	11000	21200	16300	12300	15000	8440	9230	14400	29000
23	4980	5680	6810	10000	18500	16200	12600	14300	9160	8780	13000	30000
24	[illegible]	6290	6240	9500	19300	15800	13200	12300	7910	7920	12500	30500
25	[illegible]	6710	6270	9000	19000	15200	13600	12700	7870	7550	10700	32100
26	5790	6280	6450	8500	18500	15300	13500	12900	7640	7230	8270	31500
27	5730	6370	6510	8500	17700	15000	13400	12900	6820	7340	8040	31900
28	5530	6360	6490	8000	17600	16100	12600	12600	5930	7070	7800	32200
29	5860	6320	7130	8000	---	17400	12400	12400	5880	6950	8800	32900
30	5190	6730	8080	8000	---	18500	11700	11200	6760	6770	9240	32300
31	5150	---	8580	8000	---	20500	---	10800	---	6570	9900	---
TOTAL	178480	178480	211620	346650	324810	488500	505400	723000	250440	269830	465500	663540
MEAN	5757	5949	6826	11180	11600	15760	16850	23320	8348	8704	15020	22120
MAX	6590	6730	8580	15000	21200	20500	24000	41600	10500	11700	25400	32900
MIN	4910	3930	5690	8000	7000	12900	11700	10800	5880	6570	5990	9740

CAL YR 1976 TOTAL 7382130 MEAN 20170 MAX 80300 MIN 3500
WTR YR 1977 TOTAL 4606250 MEAN 12620 MAX 41600 MIN 3930

05586100 ILLINOIS RIVER AT VALLEY CITY, IL
(National stream-quality accounting network station)

LOCATION.--Lat 39°42'10", long 90°38'40", in SW¼NW¼ sec.34, T.15 N., R.14 W., Pike County, Hydrologic Unit 07130011, 9.5 mi (15.3 km) downstream from discharge station at Meredosia, on Wabash Railroad bridge, at Flints Creek, 0.5 mi (0.8 km) east of Valley City, 1.8 mi (2.9 km) downstream from Mauvaise Terre Creek, and at mile 61.4 (98.8 km).

DRAINAGE AREA.--26,564 mi^2 (68,801 km^2).

PERIOD OF RECORD.--Water year 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1975 to current year.
WATER TEMPERATURES: June 1975 to current year.

REMARKS.--Records of discharge are given for Illinois River at Meredosia, IL (station 05585500). Daily conductance samples not collected on Sept. 7, 15.

COOPERATION.--Pesticide samples were collected by U.S. Geological Survey and analyzed by the U.S. Environmental Protection Agency.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,020 micromhos Feb. 22, 1976; minimum daily, 300 micromhos May 7, 1977.
WATER TEMPERATURES: Maximum daily, 30.5°C June 15, 16, 18, 1977; minimum daily, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 900 micromhos Nov. 29; minimum daily, 300 micromhos May 7.
WATER TEMPERATURES: Maximum daily, 30.5°C June 15, 16, 18; minimum daily, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM .7UM-MF (COL./100 ML)	FECAL STREP-TOCOCCI KF AGAR (COL. PER 100 ML)	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT												
21...	1200	5440	740	7.5	11.0	35	10.0	120	20	130	0	38
NOV												
29...	1500	6320	900	8.2	3.0	45	11.0	49	36	290	100	68
DEC												
15...	1400	5690	780	8.1	2.0	60	12.2	100	65	300	95	70
FEB												
16...	1030	10500	670	7.8	.0	7	10.0	490	8500	220	56	54
MAR												
08...	1030	14700	645	8.1	6.0	65	10.8	55	B80	230	66	56
APR												
13...	1030	15400	695	8.1	16.0	60	10.2	B22	120	290	120	69
25...	1330	13600	730	8.1	17.5	45	8.4	2100	490	310	130	75
MAY												
11...	1100	40500	438	7.9	18.5	200	6.0	3200	6700	190	78	46
JUN												
14...	1000	9000	755	8.1	22.0	7	6.5	4300	3500	270	82	69
JUL												
19...	1100	9570	715	7.9	30.0	7	3.9	B30	100	250	95	61
AUG												
10...	1030	21600	370	7.7	23.5	50	3.0	--	25000	140	49	36
SEP												
19...	1600	--	--	7.6	20.5	--	--	--	--	--	--	--
20...	1100	27000	620	7.9	19.5	250	7.0	B2300	4100	260	83	61

B Results based on colony count outside acceptable range (non-ideal colony count).

05586100 ILLINOIS RIVER AT VALLEY CITY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT 21...	7.8	12	16	.5	5.7	210	0	180	11	110	71	.7
NOV 29...	28	59	30	1.5	6.1	230	0	190	2.3	110	71	.6
DEC 15...	30	58	29	1.5	5.5	250	0	200	3.2	110	70	.6
FEB 16...	21	43	29	1.3	6.3	200	0	170	5.1	76	56	.4
MAR 08...	22	45	29	1.3	4.7	200	0	170	2.5	80	63	.4
APR 13...	28	34	20	.9	3.8	200	0	160	2.5	96	58	.4
25...	29	32	18	.8	3.6	220	0	180	2.8	100	57	.4
MAY 11...	19	17	16	.5	3.7	140	0	110	2.8	57	28	.2
JUN 14...	24	37	23	1.0	4.6	230	0	190	2.9	98	56	.4
JUL 19...	24	50	30	1.4	5.0	190	0	160	3.8	81	62	.5
AUG 10...	12	16	19	.6	4.1	110	0	90	3.5	48	22	.2
SEP 19...	--	--	--	--	--	--	--	--	--	--	--	--
20...	25	22	16	.6	4.0	210	0	170	4.2	70	33	.4

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT 21...	5.0	475	354	.65	3.9	1.8	5.7	25	.56
NOV 29...	4.2	495	460	.67	3.8	2.1	5.9	26	.69
DEC 15...	4.0	490	471	.67	2.7	2.8	5.5	24	.54
FEB 16...	5.8	381	361	.52	1.5	3.3	4.8	21	.73
MAR 08...	5.5	400	375	.54	1.3	4.2	5.5	24	.63
APR 13...	4.8	447	393	.61	4.8	1.9	6.7	30	.38
25...	3.9	440	409	.60	3.5	1.2	4.7	21	.34
MAY 11...	6.3	304	246	.41	4.3	2.4	6.7	30	.71
JUN 14...	1.9	430	404	.58	3.6	2.2	5.8	26	.48
JUL 19...	1.9	484	379	.66	2.9	1.2	4.1	18	.25
AUG 10...	4.8	220	197	.30	1.7	3.1	4.8	21	.85
SEP 20...	9.2	366	328	.50	4.2	1.4	5.6	25	.95

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
NOV 29...	18	16	2	1	1	0	10	0	10	2	2	0
FEB 16...	3	1	2	2	1	1	<10	0	<10	1	1	0
MAY 11...	6	5	1	0	0	0	30	29	1	0	0	0
AUG 10...	3	3	0	0	0	0	40	38	2	9	9	0

05586100 ILLINOIS RIVER AT VALLEY CITY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
NOV 29...	20	10	10	2600	10	46	46	0	160	120	40
FEB 16...	40	10	30	2000	140	140	135	5	290	50	240
MAY 11...	38	31	7	23000	160	22	16	6	720	680	40
AUG 10...	30	25	5	31000	410	0	0	0	890	840	50

DATE	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 29...	<.5	.0	<.5	1	1	0	40	20	20	11
FEB 16...	<.5	.0	<.5	0	0	0	60	30	30	11
MAY 11...	.0	.0	.0	--	--	0	140	130	10	6.1
AUG 10...	.0	.0	.0	0	0	0	100	90	10	7.1

DATE	TOTAL ALDRIN (UG/L)	TOTAL ATRA-ZINE (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	O,P' DDE TOTAL (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)
NOV 29...	ND	ND	ND	ND	ND	--	ND	ND	ND
MAR 08...	ND	.13	ND	ND	ND	--	ND	ND	ND
MAY 11...	.01	7.6	.0	ND	--	.01	ND	.20	.02
AUG 09...	ND	1.0	ND	ND	ND	--	ND	ND	ND

DATE	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METH-OXY-CHLOR (UG/L)	TOTAL METHYL PARA-THION (UG/L)
NOV 29...	ND	ND	ND	ND	ND	ND	ND	ND
MAR 08...	ND	ND	ND	ND	ND	ND	ND	ND
MAY 11...	ND	ND	ND	.01	ND	.14	ND	ND
AUG 09...	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	SIMA-ZINE TOTAL COUL-SON COND. (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 29...	ND	ND	ND	ND	ND	ND	ND	ND
MAR 08...	ND	ND	ND	ND	ND	ND	ND	ND
MAY 11...	ND	ND	ND	ND	ND	ND	ND	ND
AUG 09...	ND	ND	.26	ND	ND	ND	ND	ND

ND Not detected.

05586100 ILLINOIS RIVER AT VALLEY CITY, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT				
21...	32000	204	3000	99
NOV				
29...	8800	196	3350	96
DEC				
15...	28000	276	4240	98
FEB				
16...	3800	114	3230	92
MAR				
08...	4000	268	10600	94
APR				
13...	--	271	11300	94
25...	--	225	8260	97
MAY				
11...	2000	122	13300	70
JUN				
14...	70000	394	9570	95
JUL				
19...	10000	124	3200	100
AUG				
10...	570	1290	75200	100
SEP				
20...	3000	155	11300	98

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	730	760	730	790	650	680	675	700	710	725	650	545
2	740	760	735	790	655	710	690	720	710	710	650	550
3	750	760	730	800	650	710	710	680	730	660	660	600
4	740	765	735	810	660	670	720	710	740	700	650	530
5	735	765	725	820	660	640	760	675	750	700	610	630
6	725	785	740	830	660	625	740	480	755	690	650	685
7	715	765	750	815	660	600	745	300	765	685	670	---
8	710	760	760	800	650	600	730	355	765	700	610	580
9	720	760	770	800	640	660	710	410	745	650	435	570
10	720	765	770	760	640	635	720	415	750	690	345	580
11	732	760	765	750	630	620	715	430	765	710	390	580
12	750	740	750	760	590	560	725	565	775	700	415	595
13	730	760	755	760	580	500	700	545	750	700	470	600
14	730	760	740	750	550	540	670	565	745	710	535	385
15	740	770	740	760	530	560	650	585	730	710	580	---
16	745	770	745	750	560	570	650	610	725	690	545	465
17	750	780	745	760	550	585	650	620	740	645	560	495
18	750	790	735	720	565	600	660	630	730	690	550	520
19	770	780	750	720	550	620	660	625	750	690	515	575
20	775	780	730	720	540	620	660	620	750	720	500	540
21	770	790	740	650	550	630	655	620	760	670	500	530
22	770	800	730	650	560	640	660	595	750	650	500	560
23	780	805	720	650	585	650	650	625	740	615	510	560
24	770	810	730	670	540	660	655	650	730	620	505	540
25	770	815	720	660	525	680	665	675	735	600	500	520
26	775	810	710	670	520	685	700	695	730	600	520	530
27	775	800	710	655	520	700	680	705	720	620	515	490
28	775	805	720	720	600	700	680	710	710	620	520	530
29	780	900	730	710	---	665	680	710	715	630	530	560
30	770	730	750	650	---	620	690	720	715	630	495	560
31	765	---	770	650	---	670	---	705	---	630	480	---
MEAN	750	781	740	735	592	632	689	602	740	670	534	550

WTR YR 1977 MEAN 669 MAX 900 MIN 300

05586100 ILLINOIS RIVER AT VALLEY CITY, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	9.0	3.0	1.0	1.0	3.0	12.0	16.5	25.0	25.5	27.5	25.5
2	19.0	9.0	2.5	1.0	1.0	3.0	12.0	16.5	25.0	25.5	27.0	26.0
3	19.0	9.0	2.0	1.0	1.0	4.0	11.5	17.0	24.0	26.0	26.0	25.5
4	18.5	8.5	2.5	1.0	1.0	4.5	13.0	17.5	24.5	26.5	26.0	25.5
5	19.5	8.0	2.5	1.0	1.0	4.0	12.0	18.0	24.5	27.5	25.5	26.0
6	17.0	8.0	2.5	1.0	1.0	5.0	10.5	19.0	25.0	28.0	26.0	25.5
7	17.0	8.0	1.5	1.0	1.0	5.0	11.0	19.0	24.0	28.5	25.0	25.0
8	16.0	7.0	1.0	1.0	1.0	5.5	11.0	19.5	25.5	29.0	25.0	25.5
9	16.0	7.0	1.5	1.0	1.0	7.0	11.0	19.0	22.0	27.5	23.0	25.0
10	15.0	6.0	2.0	1.0	2.0	7.5	12.0	18.5	22.0	27.0	23.0	24.0
11	15.5	6.0	1.0	0.0	2.0	9.0	13.5	18.0	23.0	28.0	23.5	23.5
12	16.0	6.0	2.0	0.0	2.0	9.5	14.5	18.0	23.5	28.0	22.5	23.0
13	17.0	5.5	1.0	1.0	2.0	9.5	16.0	18.0	22.0	29.0	23.5	22.5
14	15.5	7.0	1.5	1.0	2.0	10.0	17.0	19.5	22.0	30.0	23.5	20.0
15	16.0	5.0	1.5	1.0	1.5	10.5	18.0	20.5	22.0	30.5	24.0	19.5
16	15.0	5.5	2.0	1.0	1.0	11.0	18.5	21.5	23.0	30.5	24.5	19.5
17	15.0	5.5	2.0	0.0	1.0	11.0	19.5	22.0	24.0	30.0	25.0	19.5
18	13.5	6.0	2.0	0.0	1.5	10.0	19.5	23.0	25.0	30.5	24.5	19.5
19	13.0	6.0	3.0	0.0	1.5	9.5	20.0	23.5	25.0	29.5	24.0	20.0
20	13.0	6.0	3.0	0.0	1.5	9.0	20.0	24.5	25.0	30.0	23.5	19.5
21	11.5	5.0	2.0	0.5	1.5	9.0	19.5	24.5	25.0	30.0	23.5	19.5
22	11.0	5.0	1.5	0.5	1.5	8.5	19.5	24.5	25.0	29.0	23.5	19.0
23	11.0	5.0	2.0	0.0	4.0	8.5	15.5	24.0	24.5	28.0	24.0	19.5
24	11.5	5.0	1.0	1.0	3.5	8.5	17.0	24.0	24.5	28.0	23.5	20.0
25	11.0	5.0	2.0	1.0	3.5	8.5	17.0	24.5	24.5	28.5	23.0	18.5
26	10.0	6.5	2.0	1.0	4.0	9.0	17.0	25.0	25.0	27.5	23.5	19.0
27	10.0	5.5	1.5	1.0	3.5	9.5	16.5	25.5	26.0	27.0	24.0	19.5
28	9.5	5.0	1.5	1.0	3.5	11.0	16.5	25.5	27.0	27.0	25.0	19.5
29	9.0	4.0	1.0	1.0	---	13.0	16.5	25.5	26.0	27.5	25.0	19.5
30	9.0	4.0	1.0	1.0	---	12.5	16.5	25.5	26.5	27.5	24.0	19.5
31	10.0	---	1.0	1.0	---	12.5	---	25.5	---	27.5	24.5	---
MEAN	14.0	6.5	2.0	0.5	2.0	8.5	15.5	21.5	24.5	28.0	24.5	22.0

WTR YR 1977 MEAN 14.0 MAX 30.5 MIN 0.0

05586100 ILLINOIS RIVER AT VALLEY CITY, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	OCT 21,76	NOV 29,76	DEC 15,76	FEB 16,77	MAR 8,77
TIME	1200	1500	1400	1030	1030
TOTAL CELLS/ML	32000	8800	28000	3800	4000
DIVERSITY: DIVISION	1.4	1.5	0.6	1.1	0.7
.CLASS	1.4	1.5	0.6	1.1	0.7
..ORDER	2.0	2.0	1.0	1.2	1.4
...FAMILY	2.2	2.7	1.1	1.5	2.3
....GENUS	2.8	3.2	1.2	1.9	2.6

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	3800	13	--	-	--	-
...MICRACTINIACEAE										
....MICRACTINIUM	*	0	2300#	27	--	-	30	1	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	590	2	130	1	240	1	--	-	30	1
....DICTYOSPHAERIUM	*	0	170	2	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	130	1	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	330	4	--	-	--	-	--	-
....CRUCIGENIA	3500	11	--	-	--	-	--	-	--	-
....SCENEDESMUS	1800	6	1100	12	--	-	200	5	30	1
....TETRASTRUM	1200	4	170	2	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CARTERIA	--	-	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	--	-
...PHACOTACEAE										
....PTEROMONAS	--	-	*	0	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	7900#	25	1800#	20	22000#	77	170	4	440	11
....MELOSIRA	3800	12	330	4	240	1	--	-	420	10
....STEPHANODISCUS	--	-	*	0	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	30	1
...DIATOMACEAE										
....DIATOMA	--	-	--	-	--	-	*	0	30	1
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	30	1	89	2
....SYNEDRA	--	-	--	-	--	-	*	0	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	*	0	--	-	--	-	30	1
...MERIDIONACEAE										
....MERIDION	--	-	--	-	470	2	--	-	--	-
...NAVICULACEAE										
....GYROSIGMA	--	-	*	0	--	-	--	-	--	-
....NAVICULA	590	2	*	0	1200	4	440	11	150	4
...NITZSCHIACEAE										
....NITZSCHIA	6200#	19	790	9	470	2	110	3	1900#	47
...SURIRELLACEAE										
....SURIRELLA	--	-	*	0	--	-	--	-	390	10

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

05586100 ILLINOIS RIVER AT VALLEY CITY, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	OCT 21.76 1200		NOV 29.76 1500		DEC 15.76 1400		FEB 16.77 1030		MAR 8.77 1030	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA(BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCAEAE										
....ANACYSTIS										
.....A.INCERTA	5900#	19	--	-	--	-	--	-	--	-
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	580	7	--	-	--	-	--	-
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	--	-	420	10
....ANABAENOPSIS	--	-	--	-	--	-	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	540	6	--	-	2400#	63	--	-
....SPIRULINA	--	-	--	-	--	-	380	10	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	*	0	170	2	--	-	30	1	89	2
....PHACUS	290	1	--	-	--	-	--	-	--	-
....TRACHELOMONAS	*	0	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

05586100 ILLINOIS RIVER AT VALLEY CITY, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	MAY 11,77	JUN 14,77	AUG 10,77	SEP 20,77
TIME	1100	1000	1030	1100
TOTAL CELLS/ML	2000	70000	570	3000
DIVERSITY: DIVISION	1.7	1.0	0.0	0.0
.CLASS	1.7	1.0	0.0	0.0
..ORDER	2.0	1.7	1.0	0.0
...FAMILY	2.2	2.3	1.0	0.0
....GENUS	2.6	2.8	1.0	0.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	1100	2	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	14	1	*	0	--	-	--	-
....DICTYOSPHAERIUM	--	-	3100	5	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	1200	2	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	140	7	*	0	--	-	--	-
....CRUCIGENIA	--	-	--	-	--	-	--	-
....SCENEDESMUS	220	11	1900	3	--	-	--	-
....TETRASTRUM	--	-	360	1	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CARTERIA	--	-	*	0	--	-	--	-
....CHLAMYDOMONAS	14	1	--	-	--	-	--	-
...PHACOTACEAE								
....PTEROMONAS	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	82	4	3100	4	280#	50	--	-
....MELOSIRA	180	9	1200	2	--	-	--	-
....STEPHANODISCUS	27	1	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....RHOICOSPHENIA	--	-	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	41	2	--	-	--	-	--	-
...MERIDIONACEAE								
....MERIDION	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....GYROSIGMA	--	-	--	-	--	-	--	-
....NAVICULA	14	1	*	0	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	69	3	2600	4	280#	50	--	-
...SURIRELLACEAE								
....SURIRELLA	96	5	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

05586100 ILLINOIS RIVER AT VALLEY CITY, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	MAY 11.77 1100		JUN 14.77 1000		AUG 10.77 1030		SEP 20.77 1100	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA(BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....ANACYSTIS								
.....A.INCEPTA	--	-	--	-	--	-	--	-
....AGMENELLUM	--	-	9200	13	--	-	--	-
....ANACYSTIS	--	-	3100	4	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	3700	5	--	-	--	-
....ANABAENOPSIS	--	-	1000	1	--	-	--	-
....APHANIZOMENON	--	-	4300	6	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	1000#	51	33000#	48	--	-	3000#	100
....SPIRULINA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOMONODACEAE								
....CRYPTOMONAS	41	2	--	-	--	-	--	-
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	14	1	*	0	--	-	--	-
....PHACUS	14	1	--	-	--	-	--	-
....TRACHELOMONAS	27	1	*	0	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

PERIPHYTON
(Sampling method - Polyethylene strip)

Date	Length of exposure (days)	Biomass (g/m²) Dry weight	Biomass (g/m²) Ash weight	Chlorophyll a (mg/m²)	Chlorophyll b (mg/m²)	Biomass pigment ratio
DEC 15	17	462	154	0.132	0.081	2333
JUN 14	35	42100	34800	.872	.080	8372
SEP 19	40	6690	5750	.230	.269	4087

05586800 OTTER CREEK NEAR PALMYRA, IL

LOCATION.--Lat 39°22'42", long 89°56'50", in SE¼ sec.23, T.11 N., R.8 W., Macoupin County, Hydrologic Unit 07130012, on right bank at downstream side of county highway bridge, 3.0 mi (4.8 km) downstream from confluence of East and West Forks and 4.0 mi (6.4 km) southeast of Palmyra.

DRAINAGE AREA.--61.1 mi² (158.2 km²).

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WDR IL-74: 1960(P). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 544.30 ft (165.903 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--18 years, 38.8 ft³/s (1.099 m³/s), 8.62 in/yr (219 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,900 ft³/s (337 m³/s) Apr. 23, 1966, gage height, 11.91 ft (3.630 m), from rating curve extended above 3,700 ft³/s (105 m³/s); no flow for many days in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1943 reached a discharge of 15,000 ft³/s (425 m³/s), on basis of contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,340 ft³/s (123 m³/s) May 6, gage height, 10.79 ft (3.289 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	1.4	19	2.6	1.5	42	.04	.00
2	.00	.00	.00	.00	.00	1.1	32	3.6	1.1	17	.00	.00
3	.00	.00	.00	.00	.00	5.4	21	2.4	.83	8.8	.00	.00
4	.00	.00	.00	.00	.00	7.7	18	1.7	.76	5.6	.00	.00
5	.00	.00	.00	.00	.00	3.2	18	458	.69	3.7	.00	.00
6	.00	.00	.00	.00	.00	1.2	14	2810	.60	2.6	.69	.25
7	.00	.00	.00	.00	.00	.55	10	1620	.57	2.1	32	1.6
8	.00	.00	.00	.00	.00	.29	8.5	344	4.9	1.6	8.7	.30
9	.00	.00	.00	.00	.00	.17	7.2	140	11	1.5	9.1	.01
10	.00	.00	.00	.00	.00	.11	6.5	74	5.5	1.3	36	.00
11	.00	.00	.00	.00	2.0	4.5	5.7	45	4.5	1.3	1.7	.00
12	.00	.00	.00	.00	93	180	4.7	28	1.5	1.4	.41	.00
13	.00	.00	.00	.00	70	24	4.1	19	3.5	.99	.12	.03
14	.00	.00	.00	.00	20	11	3.7	14	3.6	.87	.05	.86
15	.00	.00	.00	.00	7.0	6.3	3.4	11	1.5	.84	.01	1.0
16	.00	.00	.00	.00	3.0	3.4	2.9	7.6	.93	.72	.00	1.4
17	.00	.00	.00	.00	1.1	4.7	2.5	5.8	.68	.67	.00	.44
18	.00	.00	.00	.00	.24	14	2.2	4.6	.54	.58	.00	.12
19	.00	.00	.00	.00	1.3	8.3	1.9	3.9	.46	.51	.00	.08
20	.00	.00	.00	.00	1.6	5.6	2.4	3.4	.39	.78	.00	.01
21	.00	.00	.00	.00	.45	4.9	4.8	3.0	.31	.53	.00	.05
22	.00	.00	.00	.00	1.8	19	3.4	2.7	.39	.45	.00	.06
23	.00	.00	.00	.00	85	14	3.1	2.4	.42	.31	.12	.00
24	.00	.00	.00	.00	41	7.7	5.7	2.2	3.7	.32	.00	.00
25	.00	.00	.00	.00	6.7	4.6	3.9	2.0	74	1.0	.00	.00
26	.00	.00	.00	.00	2.8	3.4	1.5	1.9	6.8	1.0	.00	.00
27	.00	.00	.00	.00	1.8	9.0	1.2	1.9	289	.71	.00	.00
28	.00	.00	.00	.00	1.1	402	1.0	20	142	.43	.06	.00
29	.00	.00	.00	.00	---	106	.84	23	55	.27	.35	.00
30	.00	.00	.00	.00	---	37	1.0	4.1	40	.15	.00	.00
31	.00	---	.00	.00	---	24	---	2.2	---	.10	.00	---
TOTAL	.00	.00	.00	.00	339.89	914.52	214.14	5664.0	656.67	100.13	89.35	6.21
MEAN	.000	.000	.000	.000	12.1	29.5	7.14	183	21.9	3.23	2.88	.21
MAX	.00	.00	.00	.00	93	402	32	2810	289	42	36	1.6
MIN	.00	.00	.00	.00	.00	.11	.84	1.7	.31	.10	.00	.00
CFSM	.000	.000	.000	.000	.20	.48	.12	3.00	.36	.05	.05	.003
IN.	.00	.00	.00	.00	.21	.56	.13	3.45	.40	.06	.05	.00

CAL YR 1976 TOTAL 6435.33 MEAN 17.6 MAX 713 MIN .00 CFSM .29 IN 3.92
WTR YR 1977 TOTAL 7984.91 MEAN 21.9 MAX 2810 MIN .00 CFSM .36 IN 4.86

05587000 MACOUPIN CREEK NEAR KANE, IL

LOCATION.--Lat 39°14'03", long 90°23'40", in SE¼SE¼ sec.11, T.9 N., R.12 W., Greene County, Hydrologic Unit 07130012, near center of span on downstream side of bridge on State Highway 267, 1.4 mi (2.3 km) downstream from Link Branch and 3.5 mi (5.6 km) northwest of Kane.

DRAINAGE AREA.--868 mi^2 (2,248 km^2).

PERIOD OF RECORD.--March 1921 to November 1933, May to August 1940, October 1940 to current year.

REVISED RECORDS.--WSP 1175: 1924. WSP 1308: 1922(M), 1928(M), 1931(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 426.77 ft (130.079 m) above mean sea level. Prior to Oct. 1, 1928, at site 2.0 mi (3.2 km) upstream at various datums. May 17, 1940, to May 17, 1943, water-stage recorder, and May 18, 1943, to July 19, 1970, nonrecording gage at site 800 ft (244 m) downstream at present datum. July 20 to Sept. 18, 1970, nonrecording gage at present site and datum.

REMARKS.--Records fair. Several observations of water temperature were observed during the year.

AVERAGE DISCHARGE.--49 years (water years 1922-33, 1941-77), 525 ft^3/s (14.87 m^3/s), 8.21 in/yr (209 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,000 ft^3/s (1,130 m^3/s) May 18, 1943, gage height, 28.5 ft (8.69 m); no flow Oct. 19-27, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,500 ft^3/s (127 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 12	0945	4920	139	17.20	5.243	May 7	1930	*9430	267	*21.47	6.544
Mar. 28	2015	7390	209	20.33	6.197						

Minimum daily discharge, 2.0 ft^3/s (0.057 m^3/s) Jan. 11, 14-16, 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	9.4	11	7.0	6.0	200	1500	50	111	1360	38	32
2	4.5	7.6	11	6.0	5.0	200	1000	61	82	1090	39	68
3	4.5	6.2	12	5.5	5.5	400	600	85	68	325	39	66
4	4.5	5.3	10	5.0	7.0	1300	550	78	60	189	24	37
5	5.6	5.3	9.7	4.5	8.0	900	500	1470	57	129	21	29
6	11	5.3	6.3	3.0	6.0	400	400	5750	52	98	22	21
7	7.0	5.0	12	3.0	5.0	200	350	8650	48	76	143	165
8	5.8	4.8	8.5	3.5	4.5	100	300	7870	46	64	372	136
9	6.7	5.0	7.9	4.0	4.0	65	250	4450	49	71	197	48
10	8.9	5.0	7.2	3.0	4.0	37	210	1030	99	51	230	32
11	7.3	5.0	8.9	2.0	10	260	180	614	104	49	743	26
12	6.7	5.0	6.4	3.0	500	4420	160	465	75	52	244	31
13	6.7	5.0	8.1	2.5	2000	2090	140	364	75	64	95	71
14	6.3	5.3	7.3	2.0	1000	614	130	299	84	57	57	316
15	6.1	5.3	8.4	2.0	400	289	120	236	106	43	41	266
16	6.0	5.3	6.5	2.0	250	187	110	204	81	39	33	205
17	6.0	5.3	6.8	3.0	150	152	120	162	62	37	28	104
18	5.8	6.0	6.1	4.0	120	214	140	128	51	33	26	72
19	5.7	6.5	5.3	3.5	100	198	120	106	44	30	24	53
20	5.7	6.4	6.7	3.0	90	138	100	94	39	28	22	40
21	6.2	5.7	8.2	2.8	80	118	83	82	36	91	20	32
22	6.7	5.6	7.5	2.6	70	116	80	72	35	89	19	27
23	12	5.3	7.0	2.4	300	145	75	63	35	92	58	24
24	347	5.0	6.0	2.2	1410	125	75	58	180	46	232	22
25	109	5.0	5.5	2.0	534	114	73	54	849	224	66	20
26	50	6.6	5.0	2.0	250	91	65	51	1320	1270	35	20
27	27	16	5.0	3.0	180	90	58	47	1260	544	25	25
28	15	11	5.5	5.0	150	4650	53	50	2820	118	23	23
29	10	15	6.0	5.0	---	6060	50	242	2090	67	304	21
30	12	15	7.0	4.0	---	3780	47	691	817	50	106	20
31	13	---	8.2	5.0	---	2500	---	189	---	42	46	---
TOTAL	733.1	204.2	237.0	107.5	7649.0	30133	7639	33765	10835	6518	3372	2052
MEAN	23.6	6.81	7.65	3.47	273	972	255	1089	361	210	109	68.4
MAX	347	16	12	7.0	2000	6060	1500	8650	2820	1360	743	316
MIN	4.4	4.8	5.0	2.0	4.0	37	47	47	35	28	19	20
CFSM	.03	.008	.009	.004	.32	1.12	.29	1.26	.42	.24	.13	.08
IN.	.03	.01	.01	.00	.33	1.29	.33	1.45	.46	.28	.14	.09

CAL YR 1976 TOTAL 62293.8 MEAN 170 MAX 4540 MIN 3.9 CFSM .20 IN 2.67
WTR YR 1977 TOTAL 103244.8 MEAN 283 MAX 8650 MIN 2.0 CFSM .33 IN 4.42

05587060 ILLINOIS RIVER AT HARDIN, IL

LOCATION.--Lat 39°09'51", long 90°36'58", at quarter corner between secs.26 and 27, T.10 S., R.2 W., Calhoun County, Hydrologic Unit 07130011, on right bank at end of Main Street in Hardin, 0.25 mi (0.40 km) downstream from bridge on State Highways 16 and 100, and at mile 21.3 (34.3 km).

DRAINAGE AREA.--Not determined.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1973 to September 1977 (discontinued).

INSTRUMENTATION.--Temperature recorder since July 1973.

REMARKS.--Records represent water temperature at monitor probe within 0.5°C. Temperature at the sensor was compared with the average for the river by temperature cross-section June 13. Clock stopped Oct. 18-20, Jan. 16-21, Feb. 13-16, Mar. 5-7, July 30 to Aug. 9.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES (July 1973 to water year 1975, water year 1977): Maximum, 33.0°C Aug. 27, 1973; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 31.5°C July 16-20; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.0	19.5	20.0	10.0	8.5	9.0	2.0	1.5	2.0	0.0	0.0	0.0
2	20.5	19.5	20.0	10.0	9.0	9.0	2.0	0.5	1.5	0.0	0.0	0.0
3	20.5	19.0	20.0	9.5	8.5	9.0	2.0	0.5	1.0	0.0	0.0	0.0
4	19.5	18.0	19.0	8.5	8.0	8.5	1.5	0.5	1.0	0.0	0.0	0.0
5	18.0	17.0	17.5	8.5	8.0	8.0	1.0	0.0	0.5	0.0	0.0	0.0
6	17.0	16.5	16.5	8.0	7.5	7.5	0.5	0.0	0.0	0.0	0.0	0.0
7	17.0	16.0	16.5	7.5	7.5	7.5	1.0	0.0	0.0	0.0	0.0	0.0
8	17.0	16.0	16.5	7.5	7.0	7.5	1.0	0.0	0.0	0.0	0.0	0.0
9	17.5	16.5	16.5	7.0	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0
10	18.0	16.5	17.0	7.0	6.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
11	18.0	17.0	17.5	6.5	6.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
12	17.5	16.5	17.0	6.0	5.0	5.5	0.5	0.0	0.0	0.0	0.0	0.0
13	17.5	16.5	17.0	5.5	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
14	16.5	16.0	16.0	5.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
15	15.5	15.0	15.0	5.0	4.5	4.5	0.5	0.0	0.0	0.0	0.0	0.0
16	15.0	14.0	14.5	5.5	4.5	4.5	0.5	0.0	0.0	---	---	---
17	14.0	13.0	13.5	5.0	4.0	4.5	0.5	0.0	0.0	---	---	---
18	---	---	---	5.0	4.0	5.0	1.0	0.0	0.0	---	---	---
19	---	---	---	5.5	4.5	5.0	2.0	0.5	1.5	---	---	---
20	---	---	---	5.5	4.5	5.0	1.5	0.5	1.0	---	---	---
21	13.0	12.0	12.5	5.5	4.5	5.0	1.0	0.0	0.0	---	---	---
22	12.5	11.5	12.0	5.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
23	11.5	11.5	11.5	4.5	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
24	11.5	11.5	11.5	4.5	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
25	11.5	11.0	11.5	5.0	3.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
26	11.5	10.5	11.0	5.0	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
27	11.0	10.0	10.5	5.0	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
28	10.5	10.0	10.0	4.0	3.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
29	10.0	9.5	9.5	3.5	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
30	9.5	9.5	9.5	2.5	1.5	2.5	0.0	0.0	0.0	0.5	0.0	0.0
31	10.0	9.0	9.5	---	---	---	0.0	0.0	0.0	0.5	0.0	0.5
MONTH	21.0	9.0	14.5	10.0	1.5	5.5	2.0	0.0	0.5	0.5	0.0	0.0

05587060 ILLINOIS RIVER AT HARDIN, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.5	0.0	0.5	4.0	3.5	3.5	13.0	13.0	13.0	18.0	18.0	18.0
2	0.5	0.0	0.5	4.0	4.0	4.0	13.5	13.0	13.5	18.0	18.0	18.0
3	0.5	0.0	0.5	4.5	4.0	4.0	13.5	13.5	13.5	18.0	18.0	18.0
4	0.5	0.5	0.5	5.0	4.5	4.5	13.5	13.5	13.5	18.5	18.0	18.5
5	0.5	0.5	0.5	---	---	---	13.5	13.0	13.0	19.0	18.5	18.5
6	0.5	0.5	0.5	---	---	---	13.0	13.0	13.0	19.0	19.0	19.0
7	0.5	0.5	0.5	---	---	---	13.0	13.0	13.0	19.0	19.0	19.0
8	1.0	0.5	0.5	6.5	5.5	6.0	13.0	13.0	13.0	19.5	19.0	19.5
9	1.0	0.5	0.5	7.0	6.5	6.5	13.5	13.0	13.0	19.5	19.5	19.5
10	1.0	0.5	0.5	8.0	7.0	7.5	13.5	13.5	13.5	19.5	19.5	19.5
11	1.0	0.5	1.0	9.0	8.0	8.5	14.5	14.0	14.0	19.5	19.5	19.5
12	1.0	0.5	1.0	9.5	9.0	9.0	15.5	14.5	15.0	19.5	19.0	19.5
13	---	---	---	9.5	9.5	9.5	16.0	15.5	15.5	19.5	19.5	19.5
14	---	---	---	10.0	9.5	9.5	16.5	16.0	16.5	20.0	19.5	19.5
15	---	---	---	10.5	10.0	10.5	17.5	16.5	17.0	20.5	20.0	20.0
16	---	---	---	11.0	10.5	10.5	18.0	17.5	17.5	21.5	20.5	21.0
17	1.0	1.0	1.0	11.0	11.0	11.0	19.0	18.0	18.5	22.0	21.0	21.5
18	1.0	1.0	1.0	11.0	11.0	11.0	19.5	19.0	19.0	22.5	22.0	22.0
19	1.0	1.0	1.0	11.0	10.5	10.5	19.5	19.0	19.5	23.5	22.5	23.0
20	1.0	1.0	1.0	10.5	10.5	10.5	20.0	19.5	19.5	24.0	23.5	23.5
21	1.0	0.5	1.0	10.5	10.5	10.5	20.0	19.5	19.5	24.0	24.0	24.0
22	1.5	1.0	1.0	10.5	10.5	10.5	20.0	19.5	19.5	24.0	24.0	24.0
23	2.5	1.5	2.0	10.5	10.0	10.5	19.5	19.0	19.5	24.5	24.0	24.0
24	4.0	2.5	3.5	10.5	10.5	10.5	19.0	19.0	19.0	24.5	24.0	24.5
25	4.0	4.0	4.0	10.5	10.5	10.5	19.0	18.5	19.0	24.5	24.0	24.5
26	4.0	4.0	4.0	11.0	10.5	11.0	18.5	18.5	18.5	25.5	24.5	25.0
27	4.0	3.5	3.5	11.5	11.0	11.5	18.5	18.5	18.5	26.0	25.0	25.5
28	3.5	3.5	3.5	12.0	11.5	11.5	18.5	18.5	18.5	26.0	25.5	26.0
29	---	---	---	12.5	12.0	12.0	18.5	18.0	18.5	26.0	26.0	26.0
30	---	---	---	13.0	12.5	12.5	18.5	18.0	18.5	26.5	26.0	26.0
31	---	---	---	13.0	13.0	13.0	---	---	---	26.5	26.0	26.5
MONTH	4.0	0.0	1.5	13.0	3.5	9.0	20.0	13.0	16.5	26.5	18.0	21.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.5	26.0	26.0	26.5	26.5	26.5	---	---	---	25.0	24.5	25.0
2	26.0	25.5	26.0	26.5	26.0	26.5	---	---	---	25.0	25.0	25.0
3	26.0	25.5	25.5	27.5	26.5	27.0	---	---	---	25.5	25.0	25.0
4	26.0	25.5	25.5	28.0	27.0	27.5	---	---	---	25.5	25.5	25.5
5	25.5	25.5	25.5	28.5	27.5	28.0	---	---	---	25.5	25.5	25.5
6	25.5	25.5	25.5	29.0	28.5	28.5	---	---	---	25.5	25.5	25.5
7	25.5	25.0	25.0	29.5	29.0	29.0	---	---	---	25.5	25.5	25.5
8	25.0	25.0	25.0	29.5	29.5	29.5	---	---	---	25.5	25.5	25.5
9	24.5	24.5	24.5	29.5	29.0	29.5	---	---	---	25.5	25.0	25.5
10	24.5	24.0	24.5	29.5	29.0	29.5	24.5	24.0	24.0	25.5	25.0	25.0
11	24.5	24.0	24.0	29.5	29.0	29.0	24.0	23.5	23.5	25.0	24.5	24.5
12	24.0	23.5	24.0	29.5	29.0	29.0	23.5	23.0	23.5	24.5	24.0	24.0
13	23.5	23.0	23.0	30.0	29.5	29.5	23.5	23.5	23.5	23.5	23.0	23.5
14	23.0	22.5	23.0	30.5	30.0	30.0	24.0	23.5	23.5	23.0	22.5	23.0
15	23.5	23.0	23.0	31.0	30.5	30.5	24.0	24.0	24.0	22.5	21.5	22.0
16	24.0	23.5	23.5	31.5	31.0	31.0	24.5	24.0	24.0	21.5	21.0	21.0
17	25.0	24.5	24.5	31.5	31.0	31.5	24.5	24.0	24.5	21.0	21.0	21.0
18	25.0	25.0	25.0	31.5	31.5	31.5	24.5	24.5	24.5	21.0	21.0	21.0
19	25.5	25.0	25.0	31.5	31.0	31.5	24.5	24.0	24.5	21.0	20.5	21.0
20	26.0	25.0	25.5	31.5	31.0	31.0	24.5	24.0	24.5	20.5	20.5	20.5
21	26.0	25.5	26.0	31.0	31.0	31.0	24.5	24.0	24.5	20.5	20.5	20.5
22	26.0	25.5	25.5	31.0	30.5	30.5	24.5	24.0	24.0	20.5	20.0	20.0
23	25.5	25.5	25.5	30.0	30.0	30.0	24.5	24.0	24.0	20.0	20.0	20.0
24	25.5	25.0	25.0	30.0	30.0	30.0	24.0	23.5	24.0	20.0	20.0	20.0
25	26.0	25.0	25.5	30.0	29.5	29.5	23.5	23.5	23.5	20.0	20.0	20.0
26	26.0	25.5	26.0	29.5	29.0	29.0	24.0	23.5	23.5	20.0	20.0	20.0
27	26.5	26.0	26.0	28.5	28.0	28.5	24.0	24.0	24.0	20.0	20.0	20.0
28	26.5	26.0	26.5	28.5	28.0	28.0	24.5	24.0	24.5	20.0	20.0	20.0
29	26.5	25.5	26.0	28.5	28.0	28.0	24.5	24.0	24.5	20.0	20.0	20.0
30	26.5	26.5	26.5	---	---	---	24.5	24.0	24.5	20.0	20.0	20.0
31	---	---	---	---	---	---	25.0	24.5	24.5	---	---	---
MONTH	26.5	22.5	25.0	31.5	26.0	29.5	25.0	23.0	24.0	25.5	20.0	22.5
YEAR	31.5	0.0	14.5									

05587500 MISSISSIPPI RIVER AT ALTON, IL

LOCATION.--Lat 38°53'06", long 90°10'51", in NE¼ sec.14, T.5 N., R.10 W., Madison County, Hydrologic Unit 07110009, near right bank in downstream end of intermediate lock wall of lock and dam 26 at Alton, 300 ft (91 m) downstream from Missouri & Illinois Bridge & Belt Railroad bridge, 7.7 mi (12.4 km) upstream from Missouri River, and at mile 202.7 (326.1 km) upstream from Ohio River.

DRAINAGE AREA.--171,500 mi² (444,200 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: October 1927 to current year. Monthly discharge only for some periods, published in WSP 1308. Gage heights: At Grafton since 1879 and at Alton since January 1904 in reports of Mississippi River Commission, December 1890 to September 1893 and January 1917 to December 1939 in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Mar. 20, 1933, nonrecording gage at Grafton 15.3 mi (24.6 km) upstream, at datum 403.79 ft (123.075 m) higher. Mar. 20, 1933, to Jan. 4, 1937, and Nov. 11, 1937, to Jan. 31, 1938, nonrecording gage 300 ft (91 m) [illegible]tream at datum 395.48 ft (120.542 m) higher. Since July 11, 1940, auxiliary water-stage recorder 5.9 mi (9.5 km) downstream; previously various combinations of gages were used.

REMARKS.--Records excellent. Natural flow of stream affected by many reservoirs and navigation dams in upper Mississippi River basin. Floodwater from Missouri River overtops or breaches the levees at extreme high stages. Overflow from Missouri River occurred during various floods as shown in the following table:

Period	Runoff for period		Maximum		
				Discharge	
	acre-ft	hm³	Date	ft³/s	m³/s
May 21 to June 4, 1943	1,075,000	1,330	May 24, 1943	90,000	2,550
Apr. 29 to May 13, 1944	891,000	1,100	Apr. 30, 1944	90,000	2,550
June 29 to July 19, 1947	687,000	847	July 2, 1947	65,000	1,840
July 5-31, 1951	2,534,000	3,120	July 20, 1951	110,000	3,120
Apr. 3-7, 23-26, 1973	Unknown	--	Unknown	Unknown	--

AVERAGE DISCHARGE.--50 years, 97,560 ft³/s (2,763 m³/s), 70,680,000 acre-ft/yr (87.1 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 535,000 ft³/s (15,200 m³/s) Apr. 29, 1973, includes undetermined amount of overflow from Missouri River; maximum elevation, 432.15 ft (131.719 m) Apr. 28, 1973; minimum discharge, 7,960 ft³/s (225 m³/s) Nov. 7, 1948, result of temporary storage in pool of lock and dam 26; minimum elevation, 390.50 ft (119.024 m) Jan. 27, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1844 reached a stage of 432.10 ft (131.704 m), present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 179,000 ft³/s (5,070 m³/s) May 7; maximum elevation, 411.03 ft (125.282 m) Sept. 16; minimum discharge, 13,000 ft³/s (368 m³/s) Jan. 28; minimum elevation, 397.25 ft (121.082 m) Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21700	22600	18100	20800	19300	63000	119000	68500	28400	36500	25000	56800
2	20000	22000	18000	20200	22500	44600	109000	65200	30600	44100	20800	69800
3	17900	23400	19600	19700	21700	45000	98500	68300	35000	49700	20400	73000
4	17600	23200	19600	19500	20200	50400	89400	67300	36800	49400	22500	86900
5	19500	22900	21800	24700	21000	49900	84000	78700	38700	42700	25500	107000
6	22600	22400	21900	32800	21200	46600	89700	120000	38100	37000	29200	108000
7	24500	21700	26300	26200	23200	51300	88700	165000	39600	37200	35900	104000
8	25700	21500	26600	23200	24400	49800	89100	155000	37000	36000	63900	98700
9	28600	20300	26700	18400	24400	45700	92000	131000	35600	32500	102000	92400
10	28200	19500	24900	19000	24100	40300	92700	91100	42600	36800	142000	84700
11	25200	19000	23900	32900	22800	37800	87900	79800	68500	40600	116000	80100
12	22100	18000	25700	35100	29600	106000	74000	74400	53200	42300	97800	79700
13	20100	17900	27200	26800	37600	95700	56500	77300	39900	42900	69300	97700
14	20100	19400	25800	25000	44500	87700	64300	79200	44000	41300	75600	135000
15	18000	21800	25100	24500	44700	84600	58200	76200	31000	43100	63200	138000
16	17700	24000	25300	27700	44000	84700	48600	67000	23200	35700	76400	129000
17	18300	24800	26300	29900	41300	67100	45100	62000	21800	28300	51200	119000
18	18400	24800	26400	26600	35100	75800	40700	58600	21200	27800	58700	113000
19	17600	24300	27200	28200	27700	73400	42100	60300	24300	33100	71700	112000
20	18100	25000	27100	25600	43700	82600	49900	60500	25400	59700	68300	115000
21	19900	24100	29500	24800	46900	79400	56600	58100	25400	69600	65300	122000
22	21400	25000	29100	27300	41200	79500	77300	55100	29900	50300	52300	112000
23	22500	25900	27000	27900	43100	65800	63100	51900	38700	30700	62200	97500
24	32100	26100	25900	25200	52500	67800	76600	56700	39700	29200	53300	95000
25	24100	27000	22600	21000	48600	65900	71900	57200	36100	28700	49400	95600
26	25300	28600	19700	18100	59400	60800	69500	53500	33400	29600	43200	92100
27	24600	30500	19600	16700	74900	55200	70800	46500	29600	30000	36700	99600
28	24800	27100	18900	15100	82700	77300	64300	42500	30400	41000	35100	105000
29	23700	19500	19500	18800	---	118000	59300	41000	32300	35900	47900	105000
30	23100	18900	18100	20400	---	125000	64600	37100	35100	30600	51400	105000
31	22400	---	19500	19700	---	124000	---	32100	---	27900	57800	---
TOTAL	685800	691200	732900	741800	1042300	2200700	2193400	2237100	1045500	1200200	1780000	3028600
MEAN	22120	23040	23640	23930	37230	70990	73110	72160	34850	38720	57420	101000
MAX	32100	30500	29500	35100	82700	125000	119000	165000	68500	69600	142000	138000
MIN	17600	17900	18000	15100	19300	37800	40700	32100	21200	27800	20400	56800
AC-FT	1360000	1371000	1454000	1471000	2067000	4365000	4351000	4437000	2074000	2381000	3531000	6007000

CAL YR 1976 TOTAL 28363000 MEAN 77490 MAX 307000 MIN 14200 AC-FT 56260000
WTR YR 1977 TOTAL 17579500 MEAN 48160 MAX 165000 MIN 15100 AC-FT 34870000

05587500 MISSISSIPPI RIVER AT ALTON, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to September 1977.
WATER TEMPERATURES: June 1968 to current year.

INSTRUMENTATION.--Temperature recorder from June 1968 to September 1976. Specific conductance and temperature recorder since October 1976.

REMARKS.--Temperature records missing Feb. 1-22 due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 707 micromhos Jan. 24, 1977; minimum, 300 micromhos Mar. 29, 1977.
WATER TEMPERATURES: Maximum, 32.5°C July 18, 19, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 707 micromhos Jan. 24; minimum, 300 micromhos Mar. 29.
WATER TEMPERATURES: Maximum, 32.5°C July 18, 19; minimum, 0.0°C on many days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	514	495	504	482	457	472	538	520	529	590	574	582
2	528	517	521	476	460	468	524	514	519	593	578	584
3	531	520	525	475	470	473	550	516	535	581	565	570
4	532	520	524	474	451	466	568	540	552	569	551	560
5	531	520	524	452	416	432	588	503	561	557	548	551
6	533	519	526	469	431	449	498	477	486	569	558	564
7	532	519	525	481	463	472	530	509	522	584	572	575
8	532	493	509	480	468	477	550	523	534	598	589	594
9	525	504	514	475	459	466	572	550	559	606	599	604
10	526	510	518	482	450	461	573	550	559	626	614	617
11	519	503	510	500	455	470	555	541	545	646	632	638
12	509	484	493	519	510	514	546	514	526	661	648	654
13	492	487	491	526	519	521	557	534	550	663	657	661
14	502	488	493	532	500	519	552	505	523	665	655	658
15	532	505	524	542	526	534	552	523	541	671	661	664
16	539	530	536	544	513	524	555	546	550	676	666	673
17	531	520	522	513	488	501	596	562	579	685	679	683
18	523	491	509	521	505	513	596	587	592	681	670	674
19	485	454	464	510	471	488	593	573	581	690	676	683
20	472	458	465	486	472	481	580	557	573	695	685	691
21	491	455	469	523	486	508	596	580	587	701	690	696
22	508	485	494	526	507	516	599	562	581	696	687	691
23	497	463	482	542	515	529	589	567	572	705	695	700
24	471	429	455	522	516	519	583	573	578	707	700	704
25	444	424	431	526	515	523	589	580	586	704	690	696
26	482	441	464	526	519	522	589	555	578	694	684	690
27	474	442	459	513	475	494	567	558	562	681	671	679
28	458	435	443	556	488	529	569	560	565	675	658	668
29	470	461	464	558	546	553	576	569	573	655	645	651
30	468	440	450	548	532	538	583	574	580	638	632	634
31	454	438	443	---	---	---	597	578	589	629	618	624
MONTH	539	424	492	558	416	498	599	477	557	707	548	642

05587500 MISSISSIPPI RIVER AT ALTON, IL--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	612	599	605	491	480	485	391	370	381	483	441	459
2	585	566	579	494	478	486	418	368	391	499	430	441
3	568	559	563	520	495	503	428	410	419	460	451	457
4	575	563	572	555	523	534	421	398	409	462	437	450
5	585	567	581	567	553	559	475	423	444	457	435	445
6	594	579	588	579	567	574	447	409	435	526	468	498
7	598	591	596	579	561	573	440	419	432	477	317	382
8	601	587	594	557	541	547	470	435	462	318	302	307
9	594	580	588	541	509	525	457	438	449	353	319	332
10	587	573	581	514	500	507	488	458	476	401	363	384
11	587	573	581	501	478	491	501	489	495	438	408	428
12	584	577	581	497	465	481	529	507	519	457	436	447
13	574	540	553	483	423	438	598	551	570	464	456	461
14	570	542	562	418	403	410	639	614	623	476	461	469
15	564	535	547	427	413	418	635	607	618	494	473	485
16	532	510	520	418	398	409	638	601	613	520	493	503
17	507	502	504	418	393	407	597	568	578	523	505	514
18	502	490	495	423	382	396	568	550	558	565	517	537
19	508	501	504	421	398	411	573	551	561	564	548	556
20	526	517	522	398	380	389	551	528	539	556	545	553
21	540	531	535	362	351	355	550	527	536	549	526	538
22	544	526	539	394	337	369	534	518	528	544	501	522
23	535	524	532	371	353	359	539	510	527	518	491	505
24	540	529	534	384	357	369	560	531	550	505	455	483
25	527	515	522	368	356	363	570	527	557	492	471	480
26	525	518	521	367	342	356	557	532	543	492	469	483
27	518	495	508	371	344	360	526	494	509	486	452	474
28	496	489	492	370	319	345	513	485	499	484	459	471
29	---	---	---	368	300	332	527	491	510	484	450	472
30	---	---	---	356	322	338	500	480	488	496	471	486
31	---	---	---	391	341	366	---	---	---	496	471	486
MONTH	612	489	550	579	300	434	639	368	507	565	302	468
		JUNE			JULY			AUGUST			SEPTEMBER	
1	509	487	501	497	449	470	455	437	444	417	386	399
2	500	486	496	457	430	445	445	435	438	437	402	416
3	485	474	480	487	440	455	442	433	437	424	403	415
4	480	471	475	493	450	466	443	435	439	472	410	446
5	480	445	467	525	487	497	451	428	437	494	462	481
6	447	445	446	535	496	517	442	408	426	512	492	505
7	478	457	472	540	506	517	401	382	391	503	476	489
8	488	463	478	550	502	524	475	380	435	538	485	515
9	487	471	482	554	511	536	545	462	503	559	492	533
10	499	476	487	561	522	541	484	428	464	543	477	514
11	500	473	487	568	479	513	423	388	405	502	452	476
12	515	483	501	531	472	505	390	359	373	468	420	445
13	534	518	526	527	495	514	365	354	358	459	415	434
14	570	536	552	522	462	482	394	367	384	462	430	452
15	539	516	528	476	442	457	426	387	403	471	439	459
16	536	516	522	464	424	444	471	430	451	428	311	345
17	573	539	555	475	427	457	470	440	457	327	302	309
18	586	575	582	466	442	451	523	474	505	346	328	337
19	582	566	571	488	461	472	512	452	478	353	327	337
20	582	539	567	543	492	527	499	466	479	369	346	355
21	561	541	548	529	463	493	471	431	445	448	384	424
22	595	523	566	515	485	499	463	402	432	463	438	446
23	536	527	532	492	460	471	462	384	418	468	447	458
24	557	538	548	494	463	476	391	371	378	487	465	476
25	537	521	529	555	482	527	396	369	384	490	480	486
26	512	489	503	557	509	528	375	357	367	511	497	506
27	490	463	479	531	499	516	363	356	360	513	497	503
28	504	491	499	494	478	486	365	357	360	511	499	504
29	498	475	491	505	444	479	370	350	360	497	477	484
30	483	449	472	451	433	444	407	366	381	502	484	491
31	---	---	---	443	430	434	416	378	399	---	---	---
MONTH	595	445	511	568	424	488	545	350	419	559	302	468
YEAR	707	300	501									

05587500 MISSISSIPPI RIVER AT ALTON, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	21.0	19.0	19.5	10.5	10.0	10.0	3.5	3.0	3.0	0.0	0.0	0.0
2	20.5	19.0	19.5	10.0	10.0	10.0	3.0	2.5	3.0	0.0	0.0	0.0
3	20.5	19.5	20.0	10.0	9.5	9.5	2.5	2.5	2.5	0.0	0.0	0.0
4	20.0	19.5	20.0	9.5	8.5	9.0	2.5	2.0	2.5	0.0	0.0	0.0
5	20.0	19.5	20.0	8.5	8.0	8.0	2.0	2.0	2.0	0.0	0.0	0.0
6	19.5	18.5	19.0	8.5	8.0	8.0	2.0	1.5	2.0	0.0	0.0	0.0
7	18.5	18.0	18.0	7.5	7.0	7.5	1.5	1.5	1.5	0.0	0.0	0.0
8	17.5	17.0	17.5	7.0	6.0	6.5	1.5	1.0	1.5	0.0	0.0	0.0
9	17.0	16.5	16.5	6.5	6.0	6.5	1.5	1.0	1.0	0.0	0.0	0.0
10	17.0	16.0	16.5	6.5	6.5	6.5	1.5	1.5	1.5	0.0	0.0	0.0
11	16.5	16.0	16.5	6.5	6.0	6.0	1.5	1.0	1.5	0.0	0.0	0.0
12	17.0	16.0	16.5	6.0	5.5	5.5	1.5	1.0	1.0	0.0	0.0	0.0
13	17.0	16.0	16.5	5.5	5.0	5.5	1.5	1.0	1.5	0.0	0.0	0.0
14	17.0	16.5	16.5	6.0	5.0	5.5	1.5	1.5	1.5	0.0	0.0	0.0
15	16.5	16.5	16.5	5.5	5.0	5.5	1.5	1.5	1.5	0.0	0.0	0.0
16	16.0	15.5	16.0	5.0	5.0	5.0	1.5	1.5	1.5	0.0	0.0	0.0
17	15.5	15.0	15.0	5.0	4.5	5.0	1.5	1.5	1.5	0.0	0.0	0.0
18	15.0	14.0	14.5	5.5	5.0	5.5	1.5	1.5	1.5	0.0	0.0	0.0
19	14.0	13.5	14.0	5.5	5.5	5.5	2.0	1.5	1.5	0.0	0.0	0.0
20	13.5	12.5	13.0	5.5	5.5	5.5	1.5	1.0	1.5	0.0	0.0	0.0
21	12.5	12.0	12.5	5.5	5.5	5.5	1.0	0.5	0.5	0.0	0.0	0.0
22	12.5	11.5	12.0	5.5	5.0	5.0	0.5	0.5	0.5	0.0	0.0	0.0
23	11.5	11.5	11.5	5.0	5.0	5.0	0.5	0.5	0.5	0.0	0.0	0.0
24	11.5	11.0	11.0	5.0	4.5	5.0	1.0	0.5	1.0	0.0	0.0	0.0
25	11.0	11.0	11.0	5.5	5.0	5.0	1.0	1.0	1.0	0.0	0.0	0.0
26	11.0	10.5	10.5	6.0	5.5	6.0	1.5	1.0	1.5	0.0	0.0	0.0
27	10.5	10.0	10.5	6.0	5.0	5.5	1.5	1.5	1.5	0.0	0.0	0.0
28	10.5	10.0	10.0	5.0	4.5	5.0	1.5	1.0	1.5	0.0	0.0	0.0
29	10.5	10.0	10.5	4.5	4.0	4.0	1.0	0.5	1.0	0.0	0.0	0.0
30	10.5	10.0	10.0	4.0	3.5	3.5	0.5	0.0	0.5	0.0	0.0	0.0
31	10.5	10.0	10.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	21.0	10.0	15.0	10.5	3.5	6.0	3.5	0.0	1.5	0.0	0.0	0.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	2.5	2.0	2.5	12.5	12.0	12.0	19.0	19.0	19.0
2	---	---	---	2.5	2.0	2.5	13.0	12.0	12.5	20.0	17.0	19.5
3	---	---	---	3.0	2.5	3.0	13.0	12.5	13.0	20.5	20.0	20.0
4	---	---	---	3.0	3.0	3.0	12.5	12.5	12.5	21.0	20.0	20.5
5	---	---	---	3.5	3.0	3.5	12.5	11.0	11.5	21.5	20.5	21.0
6	---	---	---	4.0	3.5	3.5	11.0	10.5	10.5	21.5	21.0	21.0
7	---	---	---	4.5	4.0	4.0	11.5	10.5	11.0	21.0	21.0	21.0
8	---	---	---	5.5	4.5	5.0	12.0	11.5	12.0	21.5	20.5	21.0
9	---	---	---	6.0	5.5	5.5	12.5	11.5	12.0	21.5	21.0	21.0
10	---	---	---	7.0	6.0	6.5	14.0	12.5	13.0	21.0	20.5	20.5
11	---	---	---	8.0	7.0	7.5	14.5	13.5	14.0	20.5	20.0	20.5
12	---	---	---	9.0	8.0	8.5	15.5	14.0	15.0	20.5	20.0	20.0
13	---	---	---	9.0	9.0	9.0	16.5	15.0	15.5	21.0	20.0	20.5
14	---	---	---	10.0	9.0	9.5	17.0	16.0	16.5	21.5	20.5	21.0
15	---	---	---	10.5	9.5	10.0	17.5	17.0	17.0	22.0	21.0	21.5
16	---	---	---	11.0	10.0	10.5	18.5	17.5	18.0	23.0	21.5	22.5
17	---	---	---	10.5	10.0	10.5	19.5	18.5	18.5	23.5	22.5	23.0
18	---	---	---	10.0	9.5	10.0	19.5	19.0	19.0	24.0	23.0	23.5
19	---	---	---	10.0	9.5	9.5	19.5	19.5	19.5	25.0	23.5	24.0
20	---	---	---	9.5	9.0	9.0	20.0	19.5	20.0	25.0	24.5	24.5
21	---	---	---	9.0	8.5	8.5	20.0	19.5	19.5	25.0	24.5	25.0
22	---	---	---	9.0	8.0	8.5	19.5	19.5	19.5	25.0	24.5	25.0
23	4.0	3.5	4.0	8.5	8.0	8.0	19.5	19.0	19.5	25.0	24.5	25.0
24	5.0	3.0	3.5	8.5	8.0	8.0	19.0	19.0	19.0	25.0	25.0	25.0
25	5.0	4.5	4.5	9.0	8.0	8.5	19.0	18.0	18.5	25.0	25.0	25.0
26	4.5	4.0	4.5	9.5	8.5	9.0	19.0	18.0	18.5	25.5	25.0	25.5
27	4.0	3.5	3.5	9.5	9.0	9.5	19.0	18.5	19.0	26.5	25.5	26.0
28	3.0	2.5	3.0	10.5	9.5	10.5	19.5	19.0	19.5	27.0	26.0	26.5
29	---	---	---	12.0	10.5	11.5	19.5	19.0	19.5	27.0	26.0	26.5
30	---	---	---	13.0	12.0	12.5	19.5	19.0	19.0	27.0	26.5	26.5
31	---	---	---	12.5	12.0	12.0	---	---	---	27.0	26.5	26.5
MONTH	5.0	2.5	4.0	13.0	2.0	7.5	20.0	10.5	16.0	27.0	17.0	23.0

05587500 MISSISSIPPI RIVER AT ALTON, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.5	26.0	26.0	27.0	26.5	27.0	30.0	29.5	29.5	28.0	27.0	27.5
2	26.0	25.5	25.5	27.5	27.0	27.0	29.5	29.0	29.5	27.5	27.0	27.5
3	26.0	25.0	25.5	28.0	27.0	27.5	30.0	29.0	29.5	27.5	27.0	27.5
4	25.5	25.0	25.0	28.5	27.5	28.0	29.5	29.5	29.5	27.5	27.0	27.5
5	25.5	25.0	25.5	29.5	28.0	28.5	30.0	29.5	29.5	27.5	27.0	27.0
6	27.5	25.0	26.0	30.5	28.5	29.5	30.0	29.5	29.5	27.0	26.5	26.5
7	27.0	26.5	27.0	30.5	29.0	30.0	29.5	29.0	29.0	26.5	26.5	26.5
8	26.5	26.0	26.5	30.5	30.0	30.0	29.0	28.5	29.0	27.0	26.5	26.5
9	26.0	25.0	25.5	30.0	30.0	30.0	28.0	27.0	27.5	27.0	26.5	26.5
10	25.0	25.0	25.0	30.5	29.5	30.0	27.0	26.5	26.5	26.5	26.0	26.0
11	25.5	25.0	25.0	29.5	29.0	29.5	26.0	26.0	26.0	26.0	25.5	25.5
12	25.5	25.0	25.5	29.5	29.0	29.0	25.5	25.5	25.5	25.5	24.5	25.0
13	25.0	24.5	25.0	29.5	28.5	29.5	26.0	25.0	25.5	24.5	23.5	24.0
14	24.5	24.5	24.5	31.0	29.5	30.0	26.0	25.5	25.5	23.5	23.0	23.5
15	26.0	24.5	25.0	31.5	30.0	31.0	26.5	25.5	26.0	23.0	22.5	22.5
16	27.0	25.0	26.0	32.0	31.0	31.5	26.5	26.0	26.5	22.5	21.5	22.0
17	26.5	25.5	26.0	32.0	30.5	32.0	26.5	26.0	26.5	22.0	21.5	22.0
18	26.5	26.0	26.5	32.5	31.5	32.0	26.0	25.5	26.0	22.5	22.0	22.0
19	27.0	26.5	26.5	32.5	31.0	32.0	26.0	25.5	26.0	22.5	21.5	22.0
20	27.0	26.5	27.0	32.0	31.5	32.0	26.0	25.5	25.5	21.5	21.0	21.5
21	27.5	27.0	27.0	31.5	29.0	31.0	26.0	25.5	26.0	21.0	20.5	21.0
22	27.0	26.5	27.0	31.0	30.5	30.5	26.0	26.0	26.0	21.0	20.5	20.5
23	27.0	26.5	27.0	30.5	29.5	30.0	26.0	25.5	25.5	21.0	20.5	21.0
24	27.0	27.0	27.0	30.0	29.5	29.5	25.5	25.0	25.5	21.5	21.0	21.0
25	27.0	27.0	27.0	29.5	29.0	29.5	25.5	25.0	25.5	21.0	21.0	21.0
26	26.5	26.5	26.5	29.5	28.5	29.0	26.5	25.5	26.0	21.0	20.5	21.0
27	26.5	26.0	26.5	29.0	28.0	28.5	27.0	26.0	26.5	21.0	21.0	21.0
28	27.0	26.5	26.5	28.5	28.0	28.0	27.0	26.5	27.0	21.0	20.5	21.0
29	27.5	26.5	26.5	29.0	28.5	28.5	27.0	27.0	27.0	20.5	20.5	20.5
30	27.0	26.5	27.0	30.0	29.0	29.5	27.5	27.0	27.0	20.5	20.5	20.5
31	---	---	---	29.5	29.5	29.5	27.5	26.5	27.0	---	---	---
MONTH	27.5	24.5	26.0	32.5	26.5	29.5	30.0	25.0	27.0	28.0	20.5	23.5
YEAR	32.5	0.0	15.5									

05587900 CAHOKIA CREEK AT EDWARDSVILLE, IL

LOCATION.--Lat 38°49'28", long 89°58'29", in NW¼SE¼ sec.3, T.4 N., R.8 W., Madison County, Hydrologic Unit 07140101, on right bank at upstream side of bridge on State Highway 143 in Edwardsville, 0.6 mi (1.0 km) upstream from Illinois Terminal Railroad bridge.

DRAINAGE AREA.--212 mi² (549 km²).

PERIOD OF RECORD.--August 1969 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 420 ft (128 m), from topographic map.

REMARKS.--Records good. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--8 years, 147 ft³/s (4.163 m³/s), 9.42 in/yr (239 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,080 ft³/s (201 m³/s) Apr. 23, 1973, gage height, 20.92 ft (6.376 m); maximum gage height, 21.77 ft (6.635 m) Apr. 25, 1975; minimum daily discharge, 0.24 ft³/s (0.007 m³/s) Sept. 18, 24, Oct. 4, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 12	0930	3040	86.1	14.88	4.535	Aug. 23	1445	2410	68.3	13.24	4.036
Mar. 29	0645	*5610	159	*20.28	6.181	Sept. 12	2145	1720	48.7	11.08	3.377

Minimum daily discharge, 0.24 ft³/s (0.007 m³/s) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	20	3.0	1.1	.73	84	149	14	6.6	54	5.3	10
2	.52	13	2.7	.76	.52	82	145	20	4.3	30	5.9	9.5
3	.36	8.1	2.5	.73	.73	155	136	23	3.4	19	7.0	6.0
4	.24	6.6	2.3	.88	1.0	234	100	18	2.8	14	5.1	4.8
5	1.8	5.1	2.5	1.5	1.2	125	89	17	3.0	11	5.3	8.6
6	3.8	4.5	3.9	1.8	1.2	75	71	34	1.9	8.8	5.5	9.5
7	1.6	4.0	3.2	1.6	1.4	57	60	56	1.9	7.3	12	7.5
8	1.4	3.5	3.0	1.4	1.4	47	52	39	1.7	6.2	68	6.3
9	2.8	3.0	2.6	1.2	3.2	41	47	21	1.6	18	136	8.3
10	2.4	2.5	2.6	1.0	5.4	38	42	15	1.5	13	55	8.4
11	2.0	2.4	2.6	1.0	33	50	39	12	1.9	182	130	7.4
12	1.6	4.2	2.7	1.0	259	2050	36	10	2.4	80	29	388
13	1.4	6.2	2.5	1.2	704	1030	33	9.2	5.2	22	11	709
14	1.0	5.2	2.6	1.2	274	207	32	8.3	15	13	5.6	175
15	1.2	4.4	2.8	1.2	187	129	30	7.0	16	12	3.6	108
16	.73	3.7	2.8	1.4	118	87	28	6.3	7.2	7.7	3.4	81
17	1.2	3.3	2.8	1.2	75	73	27	5.7	3.6	6.3	2.8	42
18	1.4	3.0	2.9	1.2	63	93	25	5.5	2.4	7.6	2.5	31
19	1.6	2.7	3.3	1.2	65	71	23	5.3	1.6	5.2	4.2	43
20	2.2	2.4	3.2	1.2	49	58	25	4.5	1.3	4.2	4.6	25
21	2.0	2.2	2.2	1.2	43	48	27	4.2	1.0	4.9	4.6	18
22	2.0	2.0	2.2	1.2	53	49	29	3.7	6.5	7.8	4.7	14
23	8.2	1.8	2.0	1.2	152	53	29	3.6	3.1	5.3	831	12
24	359	1.6	1.8	1.4	232	47	26	3.8	310	4.9	150	13
25	92	1.9	1.6	1.2	97	40	21	4.5	295	18	37	13
26	24	5.8	1.6	1.2	64	35	19	53	155	106	18	17
27	11	6.9	2.2	1.4	73	81	18	13	306	34	11	17
28	7.8	4.4	2.5	1.4	66	3980	16	9.1	293	15	8.2	11
29	5.8	3.6	2.2	1.4	---	5160	15	36	112	9.5	32	7.8
30	17	3.3	2.0	1.0	---	801	14	42	58	7.1	41	7.4
31	32	---	1.4	1.0	---	216	---	13	---	5.6	18	---
TOTAL	590.57	141.3	78.2	37.37	2623.78	15296	1403	516.7	1624.9	739.4	1657.3	1818.5
MEAN	19.1	4.71	2.52	1.21	93.7	493	46.8	16.7	54.2	23.9	53.5	60.6
MAX	359	20	3.9	1.8	704	5160	149	56	310	182	831	709
MIN	.24	1.6	1.4	.73	.52	35	14	3.6	1.0	4.2	2.5	4.8
CFSM	.09	.02	.01	.006	.44	2.33	.22	.08	.26	.11	.25	.29
IN.	.10	.02	.01	.01	.46	2.68	.25	.09	.29	.13	.29	.32

CAL YR 1976 TOTAL 12584.19 MEAN 34.4 MAX 1350 MIN .24 CFSM .16 IN 2.21
WTR YR 1977 TOTAL 26527.02 MEAN 72.7 MAX 5160 MIN .24 CFSM .34 IN 4.65

05588000 INDIAN CREEK AT WANDA, IL

LOCATION.--Lat 38°50'30", long 90°01'59", in SE¼NW¼ sec.31, T.5 N., R.8 W., Madison County, Hydrologic Unit 07140101, on right bank at upstream side of bridge on State Highway 143, 0.8 mi (1.3 km) northeast of Wanda, 2.2 mi (3.5 km) upstream from mouth, and 5 mi (8 km) west of Edwardsville.

DRAINAGE AREA.--36.7 mi² (95.1 km²).

PERIOD OF RECORD.--April 1940 to current year.

REVISED RECORDS.--WSP 1175: 1941, 1942(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 429.52 ft (130.918 m) above mean sea level. Prior to Oct. 1, 1960, water-stage recorder at site 60 ft (18 m) upstream at datum 2.00 ft (0.61 m) higher. Oct. 1, 1960, to June 23, 1965, nonrecording gage at site 30 ft (9 m) upstream at present datum. June 24, 1965, to May 10, 1967, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--37 years, 24.7 ft³/s (0.700 m³/s), 9.14 in/yr (232 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,340 ft³/s (265 m³/s) Aug. 15, 1946, gage height, 18.41 ft (5.611 m), site and datum then in use; no flow for many days in 1940-41, 1944, 1948, 1953-68, 1971-73, 1976-77.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 12	0530	1110	31.4	10.53	3.210	Aug. 23	1400	1230	34.8	11.76	3.584
Mar. 28	1700	*2400	68.0	*14.51	4.423						

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	1.8	.00	.00	.00	15	19	1.3	.11	2.6	.04	1.4
2	.03	.35	.00	.00	.00	14	21	2.5	.08	.64	.00	1.7
3	.03	.40	.00	.00	.00	35	13	1.9	.06	.22	.00	1.4
4	.03	.78	.00	.00	.00	29	13	1.7	.06	.09	.00	1.2
5	.96	.49	.00	.02	.00	14	11	1.8	.06	.03	.00	26
6	.64	.25	.47	.00	.00	11	8.2	2.1	.06	.00	.01	9.0
7	.14	.26	.42	.00	.03	9.3	7.5	13	.00	.00	.87	2.2
8	.04	.30	.12	.00	.05	8.3	6.3	3.6	.00	.00	4.6	1.2
9	.00	.26	.02	.00	.10	7.8	5.6	1.9	.00	.22	98	.91
10	.00	.30	.09	.00	5.0	7.3	5.1	1.2	.00	.91	21	.72
11	.00	.30	.13	.00	30	19	5.0	1.0	.00	89	18	.69
12	.00	.12	.11	.00	150	576	4.3	1.0	.00	11	3.3	167
13	.00	.12	.07	.00	100	38	3.8	1.0	.30	4.5	1.7	77
14	.00	.11	.03	.00	35	20	3.6	.90	.11	18	1.8	22
15	.00	.19	.05	.00	11	13	3.9	.90	.08	5.6	1.3	14
16	.00	.20	.08	.00	9.0	10	3.7	1.0	.06	2.7	1.6	11
17	.00	.26	.09	.00	6.0	11	3.1	1.0	.03	3.9	.42	4.5
18	.00	.33	.14	.00	6.0	13	2.7	.56	.03	17	.06	3.6
19	.01	.30	.20	.00	14	8.8	3.3	.46	.03	2.6	.00	3.4
20	.06	.35	.26	.00	10	7.6	4.0	.46	.03	1.3	.00	2.0
21	.06	.22	.13	.00	7.3	7.1	3.8	.24	.00	3.0	.00	1.1
22	.06	.19	.04	.00	11	7.0	3.8	.19	1.3	1.0	.00	.87
23	3.5	.14	.05	.00	43	5.8	3.0	.24	.90	2.0	450	.72
24	105	.11	.02	.00	32	4.6	3.9	.19	23	1.1	51	1.2
25	9.6	.11	.00	.00	11	4.4	2.7	.38	9.4	7.8	13	1.4
26	.98	.74	.00	.00	10	4.1	2.1	.30	2.3	11	7.2	2.7
27	.27	.66	.00	.00	12	26	1.9	.19	42	1.6	4.5	2.3
28	.11	.31	.00	.00	10	1290	1.6	.96	23	.48	2.8	.69
29	.13	.10	.00	.00	---	169	1.3	.56	1.8	.28	4.8	.31
30	8.8	.05	.00	.00	---	39	1.2	.56	.97	.14	2.3	.20
31	11	---	.00	.00	---	23	---	.30	---	.07	1.7	---
TOTAL	141.48	10.10	2.52	.02	512.48	2447.1	172.4	43.33	105.77	188.78	690.00	362.31
MEAN	4.56	.34	.081	.001	18.3	78.9	5.75	1.40	3.53	6.09	22.3	12.1
MAX	105	1.8	.47	.02	150	1290	21	13	42	89	450	167
MIN	.00	.05	.00	.00	.00	4.1	1.2	.19	.00	.00	.00	.20
CFSM	.12	.009	.002	.000	.50	2.15	.16	.04	.10	.17	.61	.33
IN.	.14	.01	.00	.00	.52	2.48	.17	.04	.11	.19	.70	.37

CAL YR 1976 TOTAL 2196.50 MEAN 6.00 MAX 226 MIN .00 CFSM .16 IN 2.23
WTR YR 1977 TOTAL 4676.29 MEAN 12.8 MAX 1290 MIN .00 CFSM .35 IN 4.74

05589500 CANTEEN CREEK AT CASEYVILLE, IL

LOCATION.--Lat 38°38'35", long 90°01'00", in N¼NW¼ sec.8, T.2 N., R.8 W., St. Clair County, Hydrologic Unit 07140101, on right bank at upstream side of highway bridge at Caseyville, 100 ft (30 m) upstream from Penn Central bridge and 400 ft (122 m) upstream from bridge on State Highway 157.

DRAINAGE AREA.--22.6 mi^2 (58.5 km^2).

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1145: 1946. WSP 1208: 1942(P). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 420.97 ft (128.312 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Diurnal fluctuation at low flow. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--38 years, 16.9 ft^3/s (0.479 m^3/s), 10.17 in/yr (258 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft^3/s (289 m^3/s) June 15, 1957, gage height, 17.81 ft (5.428 m), from rating curve extended above 890 ft^3/s (25.2 m^3/s) on basis of contracted-opening measurement of peak flow; maximum gage height, 20.54 ft (6.261 m) Aug. 16, 1946; no flow at times in 1953-54, 1964, 1966-67, 1976-77.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,770 ft^3/s (50.1 m^3/s) Mar. 28, gage height, 8.54 ft (2.603 m); no flow for several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.6	.19	.04	.30	14	12	2.1	.34	.85	.06	.66
2	.00	.88	.19	.00	.30	8.3	11	2.8	.22	.63	.05	.49
3	.00	.65	.19	.05	.30	12	8.5	2.5	.18	.51	.07	1.0
4	.00	.56	.22	.14	.30	11	8.6	2.5	.21	.41	.05	.59
5	7.9	.47	.24	.24	.40	6.4	8.1	2.4	.21	.35	.05	.37
6	13	.51	1.3	.32	1.0	4.9	6.8	2.4	.14	.27	.04	.35
7	1.4	.35	1.4	.35	.80	4.1	6.4	20	.08	.20	.03	.30
8	.44	.22	.90	.30	.60	3.8	5.8	5.2	.12	7.8	.09	.25
9	.16	.25	.63	.30	.50	3.9	5.0	2.4	.22	1.8	18	.22
10	.09	.32	.67	.30	3.0	3.6	5.0	1.8	.10	.66	23	.18
11	.05	.39	.65	.20	20	26	4.5	2.4	.12	3.3	3.1	.17
12	.04	.25	.62	.20	50	179	4.2	2.0	.19	2.9	.83	2.6
13	.04	.22	.50	.20	15	22	4.1	1.4	6.3	.75	.55	4.5
14	.03	.25	.41	.20	7.0	13	4.2	1.3	1.1	.45	.47	1.9
15	.06	.32	.45	.20	3.0	9.1	3.9	1.1	.61	.53	.34	5.6
16	.02	.32	.48	.20	1.3	6.6	3.4	.92	.39	.25	.33	2.3
17	.01	.32	.53	.20	.80	8.0	3.2	.78	.32	.17	.23	.83
18	.00	.35	.55	.20	.50	8.5	3.0	.73	.24	.13	.16	.55
19	.02	.43	.68	.30	2.0	5.5	3.4	.67	.24	.08	.13	.76
20	.39	.43	.66	.30	1.6	5.1	4.6	.58	.21	.07	.12	.46
21	.39	.35	.30	.20	1.4	4.9	6.7	.54	.41	1.4	.14	.45
22	.32	.32	.21	.20	1.8	5.5	4.3	.45	11	1.3	.12	.41
23	6.0	.23	.27	.20	20	4.5	3.8	.40	1.9	.41	101	.31
24	12	.26	.22	.20	11	4.1	3.4	.42	56	6.3	15	.63
25	2.7	.30	.34	.19	4.2	3.9	2.8	.64	12	7.5	2.1	.76
26	1.0	.46	.38	.18	12	3.7	2.7	.51	2.0	3.3	.92	.46
27	.75	.47	.46	.16	16	23	2.3	.46	7.5	.54	.58	.29
28	.47	.34	.51	.16	9.8	539	2.4	.35	3.0	.28	3.3	.21
29	.35	.22	.55	.16	---	62	2.2	.29	1.4	.21	17	.25
30	9.0	.15	.76	.20	---	24	2.0	.46	.93	.20	2.5	.34
31	4.8	---	.26	.30	---	14	---	.62	---	.10	1.1	---
TOTAL	61.43	12.19	15.72	6.39	184.90	1043.4	148.3	61.12	107.68	43.63	191.46	28.19
MEAN	1.98	.41	.51	.21	6.60	33.7	4.94	1.97	3.59	1.41	6.18	.94
MAX	13	1.6	1.4	.35	50	539	12	20	56	7.8	101	5.6
MIN	.00	.15	.19	.00	.30	3.6	2.0	.29	.08	.07	.03	.17
CFSM	.09	.02	.02	.009	.29	1.49	.22	.09	.16	.06	.27	.04
IN.	.10	.02	.03	.01	.30	1.72	.24	.10	.18	.07	.32	.05

CAL YR 1976 TOTAL 1530.26 MEAN 4.18 MAX 125 MIN .00 CFSM .19 IN 2.52
WTR YR 1977 TOTAL 1904.41 MEAN 5.22 MAX 539 MIN .00 CFSM .23 IN 3.13

05590000 KASKASKIA DITCH AT BONDVILLE, IL

LOCATION.--Lat 40°06'47", long 88°20'55", in NW¼NW¼ sec.18, T.19 N., R.8 E., Champaign County, Hydrologic Unit 07140201, on left bank at downstream side of bridge on State Highway 10, 50 ft (15 m) upstream from Illinois Central Gulf Railroad bridge, 1 mi (2 km) east of Bondville, 3.8 mi (6.1 km) west of Champaign, and at mile 323.6 (520.7 km).

DRAINAGE AREA.--12.4 mi² (32.1 km²).

PERIOD OF RECORD.--December 1948 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 689.89 ft (210.278 m) above mean sea level.

REMARKS.--Records fair except those for winter periods and those for periods of pumpage, Oct. 1 to Feb. 11, Feb. 15 to Mar. 21, Apr. 21 to May 5, June 1-9, June 20 to Aug. 5, Sept. 10-13, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--28 years (water years 1950-77), 9.87 ft³/s (0.280 m³/s), 10.81 in/yr (275 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,490 ft³/s (42.2 m³/s) May 16, 1968, gage height, 14.94 ft (4.554 m); no flow at times in 1954, 1964-65, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 150 ft³/s (4.25 m³/s) May 6, gage height, 4.79 ft (1.460 m), no peak above base of 160 ft³/s (4.5 m³/s); minimum daily, 0.04 ft³/s (0.001 m³/s) Jan. 24 to Feb. 9, Feb. 13-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	.25	.11	.08	.04	3.6	17	3.5	3.5	1.9	1.0	5.1
2	.32	.25	.12	.07	.04	3.5	41	5.7	3.4	1.5	1.0	4.1
3	.34	.23	.13	.07	.04	3.4	22	4.4	3.2	1.3	1.0	3.8
4	.35	.21	.12	.07	.04	9.0	19	5.5	3.2	1.2	1.1	3.6
5	.38	.21	.13	.07	.04	5.9	14	60	3.1	1.1	1.8	4.4
6	1.5	.21	.12	.07	.04	5.1	11	96	2.9	1.1	10	4.4
7	.33	.21	.11	.07	.04	4.5	11	77	2.6	1.1	66	3.5
8	.30	.23	.12	.06	.04	4.1	9.6	43	2.9	8.0	36	3.1
9	.30	.21	.14	.06	.04	3.8	9.3	31	2.5	5.0	24	3.0
10	.29	.21	.11	.06	.08	3.6	8.7	24	2.0	3.0	49	8.2
11	.27	.20	.11	.06	.06	3.5	8.7	19	1.9	2.3	69	10
12	.27	.20	.11	.06	.05	24	8.2	16	1.7	2.6	74	11
13	.25	.20	.11	.06	.04	7.9	7.4	14	1.6	2.2	36	42
14	.28	.18	.12	.06	.04	5.1	6.6	12	1.5	1.9	23	35
15	.28	.18	.11	.06	.04	4.5	6.0	11	1.4	1.8	69	28
16	.28	.18	.10	.05	.04	4.1	5.3	9.5	1.4	9.1	42	24
17	.28	.18	.12	.05	.04	4.0	4.9	9.0	1.4	4.9	33	18
18	.30	.18	.13	.05	.04	17	4.2	8.1	1.3	3.2	21	16
19	.32	.18	.13	.05	.04	9.9	3.9	7.7	1.2	1.7	16	14
20	.32	.16	.13	.05	.04	8.7	3.6	7.4	1.6	1.3	12	12
21	.30	.16	.11	.05	.04	8.0	3.4	7.0	1.4	5.3	11	11
22	.28	.16	.11	.05	2.2	14	3.2	6.4	1.5	2.1	9.6	10
23	.30	.15	.10	.05	10	24	2.9	5.7	1.6	1.3	8.4	9.8
24	.28	.16	.09	.04	9.1	19	2.8	5.6	1.4	1.1	6.9	11
25	.25	.18	.08	.04	5.2	15	2.7	6.1	2.0	1.0	5.7	9.6
26	.25	.20	.08	.04	4.5	12	2.3	5.4	1.7	.98	5.1	9.0
27	.25	.16	.09	.04	4.1	17	2.3	4.8	1.4	.93	4.4	8.4
28	.25	.12	.09	.04	3.8	59	2.8	4.4	1.8	.93	4.6	7.6
29	.25	.12	.09	.04	---	43	2.8	4.0	1.6	.93	17	7.6
30	.28	.11	.08	.04	---	28	3.5	3.7	1.5	.98	8.5	8.4
31	.25	---	.08	.04	---	20	---	3.7	---	1.0	6.4	---
TOTAL	10.24	5.58	3.38	1.70	39.81	394.2	250.1	520.6	60.2	72.75	673.5	345.6
MEAN	.33	.19	.11	.055	1.42	12.7	8.34	16.8	2.01	2.35	21.7	11.5
MAX	1.5	.25	.14	.08	10	59	41	96	3.5	9.1	74	42
MIN	.25	.11	.08	.04	.04	3.4	2.3	3.5	1.2	.93	1.0	3.0
CFSM	.03	.02	.009	.004	.12	1.02	.67	1.36	.16	.19	1.75	.93
IN.	.03	.02	.01	.01	.12	1.18	.75	1.56	.18	.22	2.02	1.04

CAL YR 1976 TOTAL 2278.23 MEAN 6.22 MAX 127 MIN .08 CFSM .50 IN 6.83
WTR YR 1977 TOTAL 2377.66 MEAN 6.51 MAX 96 MIN .04 CFSM .53 IN 7.13

05590400 KASKASKIA RIVER NEAR PESOTUM, IL

LOCATION.--Lat 39°52'44", long 88°22'35", on north boundary of sec.2, T.16 N., R.7 E., Douglas County, Hydrologic Unit 07140201, on left bank at downstream side of bridge, 0.1 mi (0.2 km) downstream from Twomile Slough, 6.0 mi (9.7 km) southwest of Pesotum, and at mile 305.0 (490.7 km).

DRAINAGE AREA.--109 mi² (282 km²).

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 648.40 ft (197.632 m) above mean sea level. Oct. 1, 1964, to Nov. 16, 1965, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Water is pumped into river from wells 15 mi (24 km) upstream. Several observations of water temperature were made during the year.

COOPERATION.--Records of pumpage furnished by Industrial Water Supply Co.

AVERAGE DISCHARGE.--13 years, 99.6 ft³/s (2.821 m³/s), 12.41 in/yr (315 mm/yr), adjusted for pumpage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,310 ft³/s (93.7 m³/s) June 23, 1974, gage height, 15.92 ft (4.852 m); minimum, 2.9 ft³/s (0.082 m³/s) Sept. 9, 10, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (20 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 28	2000	930	26.3	8.34	2.542	Sept. 14	0315	725	20.5	7.28	2.219
May 6	1645	*1340	37.9	*10.28	3.133						

Minimum discharge, 14 ft³/s (0.40 m³/s) Oct. 1, Nov. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	20	25	22	19	60	221	53	41	42	24	52
2	17	20	23	22	19	60	254	96	47	32	23	66
3	17	19	21	22	19	90	209	78	49	29	23	54
4	17	19	20	22	19	175	189	73	48	27	26	45
5	18	19	20	22	19	111	166	608	47	26	46	41
6	73	20	20	22	19	95	141	1080	49	25	69	58
7	37	19	23	22	19	94	131	880	46	24	268	43
8	27	21	30	21	19	86	118	534	48	32	284	37
9	24	20	26	21	22	65	113	380	46	133	157	36
10	23	20	23	21	30	63	108	278	42	54	170	32
11	30	20	22	20	40	50	98	218	34	37	207	41
12	24	21	21	20	50	229	91	180	41	40	342	43
13	19	22	21	20	70	184	88	158	39	36	185	211
14	19	21	21	20	50	112	84	141	38	28	123	560
15	19	19	21	20	35	84	80	127	36	26	174	306
16	19	19	20	20	32	66	76	114	35	42	160	233
17	19	21	20	20	31	71	72	107	35	81	119	177
18	19	21	20	20	30	331	68	99	33	41	91	147
19	20	20	25	20	30	222	69	93	32	29	75	158
20	21	20	35	20	30	172	67	88	30	20	60	148
21	20	19	31	20	30	145	60	90	30	25	58	125
22	19	19	28	20	33	217	59	100	33	31	76	111
23	20	29	26	20	37	322	59	77	35	26	52	102
24	24	19	25	20	60	259	55	71	31	26	49	208
25	20	19	24	19	130	204	52	65	46	24	40	203
26	20	21	24	19	90	152	51	62	37	23	36	148
27	19	22	23	19	76	156	45	59	32	24	33	125
28	19	22	23	19	66	629	45	53	40	25	35	110
29	19	27	23	19	---	620	43	49	37	25	139	104
30	21	34	23	19	---	391	48	46	34	25	100	102
31	26	---	22	19	---	276	---	43	---	25	69	---
TOTAL	706	632	729	630	1124	5791	2960	6100	1171	1083	3313	3824
MEAN	22.8	21.1	23.5	20.3	40.1	187	98.7	197	39.0	34.9	107	127
MAX	73	34	35	22	130	629	254	1080	49	133	342	560
MIN	17	19	20	19	19	50	43	43	30	20	23	32
MEAN†	10.3	9.40	11.5	8.70	30.5	182	98.2	195	27.9	24.1	105	126
CFSM†	.09	.09	.11	.08	.28	1.67	.90	1.79	.26	.22	.96	1.16
IN.†	.10	.10	.13	.09	.29	1.92	1.00	2.06	.29	.25	1.11	1.29

CAL YR 1976 TOTAL 26901 MEAN 73.5 MAX 1420 MIN 16 MEAN† 66.7 CFSM† .61 IN† 8.30
WTR YR 1977 TOTAL 28063 MEAN 76.9 MAX 1080 MIN 17 MEAN† 69.4 CFSM† .64 IN† 8.69

† Adjusted for pumpage from wells into river 15 mi (24 km) upstream.

05590800 LAKE FORK AT ATWOOD, IL

LOCATION.--Lat 39°48'30", long 88°28'34", in NE¼NW¼ sec.36, T.16 N., R.6 E., Piatt County, Hydrologic Unit 07140201, on left bank at downstream side of bridge, 0.9 mi (1.4 km) northwest of Atwood and 8.9 mi (14.3 km) above mouth.

DRAINAGE AREA.--149 mi² (386 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 644.58 ft (196.468 m) above mean sea level.

REMARKS.--Records poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--5 years, 168 ft³/s (4.758 m³/s), 15.31 in/yr (389 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,850 ft³/s (80.7 m³/s) June 23, 1974, gage height, 13.11 ft (3.966 m); no flow Aug. 28 to Sept. 3, Sept. 16-18, Oct. 3-5, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s (25 m³/s) and maximum (*):

Date	Tim	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 29	Unknown	1350	38.2	Unknown	-	May 6	2400	*1930	54.7	*11.87	3.618

No flow Oct. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	2.7	1.2	.20	.12	7.0	282	38	50	27	2.7	60
2	.03	2.7	1.0	.20	.12	6.0	247	58	47	28	2.0	38
3	.00	2.4	.90	.20	.11	11	215	86	42	21	1.5	28
4	.00	1.8	.82	.19	.11	91	186	87	38	15	1.3	25
5	.00	1.4	.76	.19	.11	132	158	820	36	11	5.1	23
6	1.3	1.1	.70	.19	.11	108	129	1580	38	8.5	6.7	21
7	2.2	.90	.64	.18	.11	95	116	1770	35	6.9	71	19
8	1.0	.78	.60	.18	.11	84	107	1240	33	6.3	237	16
9	.36	.70	.56	.18	.11	86	99	890	34	6.7	175	14
10	.14	.68	.52	.17	.20	80	98	603	29	13	153	12
11	.10	.68	.48	.17	2.0	68	93	401	28	15	212	11
12	.14	.68	.45	.17	6.0	314	86	279	28	18	241	10
13	.16	.62	.43	.16	5.4	512	83	194	27	23	202	31
14	.12	.62	.41	.16	3.0	280	81	170	26	22	137	238
15	.11	.58	.39	.16	2.0	179	77	165	22	17	101	239
16	.10	.56	.37	.16	1.6	136	73	136	20	15	80	167
17	.10	.52	.35	.15	1.4	119	70	124	20	16	70	131
18	.10	.50	.35	.15	1.2	360	67	117	20	33	56	110
19	.20	.50	.35	.15	1.1	365	66	109	19	26	46	100
20	.32	.50	.33	.15	1.0	261	64	110	18	20	41	104
21	.40	.50	.31	.14	1.0	187	61	103	16	16	30	88
22	.55	.50	.28	.14	1.4	289	57	96	17	14	33	76
23	.60	.50	.27	.14	5.0	528	55	99	20	12	28	68
24	1.7	.50	.26	.14	25	422	53	82	19	10	20	132
25	1.3	.50	.25	.13	24	277	49	83	18	9.2	14	248
26	.90	2.5	.24	.13	15	194	48	82	17	7.4	12	187
27	.90	2.4	.23	.13	11	178	47	77	18	5.6	10	140
28	1.0	2.0	.23	.13	8.6	700	46	72	19	4.0	25	114
29	1.2	1.6	.22	.12	---	1000	44	68	26	2.6	70	100
30	1.4	1.4	.22	.12	---	750	38	61	24	2.2	90	111
31	2.1	---	.21	.12	---	453	---	54	---	2.7	80	---
TOTAL	18.57	33.30	14.33	4.90	116.91	8272.0	2895	9844	804	434.1	2253.3	2661
MEAN	.60	1.11	.46	.16	4.18	267	96.5	318	26.8	14.0	72.7	88.7
MAX	2.2	2.7	1.2	.20	25	1000	282	1770	50	33	241	248
MIN	.00	.50	.21	.12	.11	6.0	38	38	16	2.2	1.3	10
CFSM	.004	.007	.003	.001	.03	1.79	.65	2.13	.18	.09	.49	.60
IN.	.00	.01	.00	.00	.03	2.07	.72	2.46	.20	.11	.56	.66

CAL YR 1976 TOTAL 30197.33 MEAN 82.5 MAX 2170 MIN .00 CFSM .55 IN 7.54
WTR YR 1977 TOTAL 27351.41 MEAN 74.9 MAX 1770 MIN .00 CFSM .50 IN 6.83

05591200 KASKASKIA RIVER AT COOKS MILLS, IL

LOCATION.--Lat 39°34'59", long 88°24'50", in NW¼SW¼ sec.10, T.13 N., R.7 E., Coles County, Hydrologic Unit 07140201, on right bank at downstream side of bridge in Cooks Mills, 3.8 mi (6.1 km) downstream from Flat Branch and at mile 271.2 (436.4 km).

DRAINAGE AREA.--473 mi^2 (1,225 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 617.40 ft (188.183 m) above mean sea level.

REMARKS.--Water-discharge records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--7 years, 455 ft^3/s (12.89 m^3/s), 13.06 in/yr (332 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,340 ft^3/s (208 m^3/s) May 19, 1974, gage height, 15.83 ft (4.825 m); minimum, 9.9 ft^3/s (0.28 m^3/s) Sept. 8-9, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,600 ft^3/s (45 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 31	0315	2170	61.5	10.77	3.283	May 8	0600	*4190	119	*13.54	4.127

Minimum daily discharge, 11 ft^3/s (0.31 m^3/s) Feb. 5-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	26	24	16	12	110	1730	107	130	215	19	189
2	17	35	18	16	12	110	1360	109	120	185	19	137
3	16	35	15	16	12	108	1050	132	114	141	18	112
4	16	30	13	16	12	148	844	177	112	104	16	101
5	17	27	13	16	11	266	713	275	111	81	16	87
6	45	24	14	16	11	400	592	1360	111	66	21	74
7	70	22	18	15	11	330	468	3610	109	56	77	65
8	60	20	21	15	13	250	350	4090	108	63	180	68
9	45	20	20	15	17	210	310	3410	105	151	310	58
10	30	21	18	15	23	190	282	2570	103	140	404	49
11	25	21	16	15	30	200	266	1930	97	156	379	41
12	20	22	14	15	40	350	251	1480	89	102	353	36
13	16	22	13	15	56	450	234	1160	83	73	420	44
14	14	21	13	15	110	350	226	841	88	72	485	157
15	14	24	13	14	150	280	220	613	86	64	437	377
16	14	25	13	14	100	220	211	461	79	52	346	609
17	14	26	13	14	70	260	199	361	73	45	327	696
18	14	25	14	14	60	400	188	312	68	65	227	600
19	15	23	18	14	54	580	182	283	64	89	168	432
20	15	22	22	14	52	500	178	262	56	74	126	314
21	16	23	24	14	60	400	175	247	49	57	123	280
22	18	24	20	13	70	350	168	235	46	68	130	248
23	19	25	18	13	80	420	163	227	50	52	123	206
24	20	23	17	13	100	500	156	212	61	43	112	308
25	22	20	17	13	150	600	148	191	92	34	89	342
26	25	18	17	13	190	450	142	184	157	28	75	437
27	21	23	17	13	150	400	134	176	122	26	61	500
28	19	24	17	13	120	700	127	169	105	22	52	446
29	19	30	16	12	---	1210	120	162	129	17	96	334
30	18	32	16	12	---	1840	116	152	148	16	199	266
31	21	---	16	12	---	2100	---	141	---	19	246	---
TOTAL	713	733	518	441	1776	14682	11303	25639	2865	2376	5654	7613
MEAN	23.0	24.4	16.7	14.2	63.4	474	377	827	95.5	76.6	182	254
MAX	70	35	24	16	190	2100	1730	4090	157	215	485	696
MIN	14	18	13	12	11	108	116	107	46	16	16	36
CFSM	.05	.05	.04	.03	.13	1.00	.80	1.75	.20	.16	.39	.54
IN.	.06	.06	.04	.03	.14	1.15	.89	2.02	.23	.19	.44	.60

CAL YR 1976 TOTAL 91409 MEAN 250 MAX 4070 MIN 10 CFSM .53 IN 7.19
WTR YR 1977 TOTAL 74313 MEAN 204 MAX 4090 MIN 11 CFSM .43 IN 5.84

05591200 KASKASKIA RIVER AT COOKS MILLS, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to September 1977.

COOPERATION.--Chemical data furnished by Illinois State Water Survey and reviewed by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)
OCT												
14...	1500	14	850	--	--	15.0	16	--	296	69	30	71
NOV												
24...	1220	22	1050	8.1	--	2.0	3.0	--	350	80	36	108
DEC												
15...	0900	--	1140	7.2	--	.0	4.0	--	402	96	39	111
FEB												
02...	1030	12	1100	7.8	--	.0	8.0	.0	388	97	35	104
25...	0900	150	590	7.6	--	.0	2.0	--	200	48	19	40
MAR												
28...	1520	966	540	7.3	--	13.0	59	--	261	61	26	10
APR												
12...	1120	253	--	--	29.0	17.0	5.0	--	314	72	32	12
MAY												
17...	1500	345	659	7.7	34.5	25.0	23	--	334	77	34	9.6
JUN												
22...	1100	46	560	7.9	--	21.7	24	--	306	66	33	29
JUL												
25...	1140	34	700	6.9	--	27.1	42	--	290	65	31	42
AUG												
25...	0930	90	660	6.9	--	20.7	50	--	303	70	30	20
SEP												
21...	0900	282	690	7.1	--	19.8	30	--	367	86	36	11

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT												
14...	34	1.8	4.9	186	191	46	.4	9.7	566	.77	21.4	31
NOV												
24...	40	2.5	5.0	262	223	57	.4	5.1	702	.95	41.7	8
DEC												
15...	37	2.4	5.7	286	265	59	.4	4.3	781	1.06	--	7
FEB												
02...	36	2.3	5.5	298	248	50	.4	11	737	1.00	23.9	15
25...	30	1.3	3.7	146	76	41	.3	7.3	352	.48	143	4
MAR												
28...	8	.3	1.6	170	48	27	.2	7.2	309	.42	806	86
APR												
12...	8	.3	.9	202	60	31	.2	3.2	376	.51	257	11
MAY												
17...	6	.2	1.0	216	56	26	.3	8.5	390	.53	363	47
JUN												
22...	17	.7	1.4	238	74	36	.3	.9	397	.54	49.3	56
JUL												
25...	24	1.1	3.0	216	112	36	.3	10	431	.59	39.6	85
AUG												
25...	13	.5	2.2	230	63	31	.3	10	380	.52	92.3	122
SEP												
21...	6	.3	1.5	278	55	24	.3	12	417	.57	318	73

05591200 KASKASKIA RIVER AT COOKS MILLS, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT											
14...	.81	3.6	.00	.00	.94	.94	2.9	<100	500	0	0
NOV											
24...	1.3	5.8	.07	.10	2.6	2.5	7.7	<100	800	0	50
DEC											
15...	1.7	7.9	.07	.10	1.6	1.6	5.0	<100	800	0	20
FEB											
02...	.18	.80	1.6	2.1	1.2	1.1	3.6	<100	900	0	0
25...	1.7	7.7	1.0	1.3	.52	.48	1.5	<100	300	0	0
MAR											
28...	7.2	32	.07	.10	.16	.13	.40	<100	100	0	0
APR											
12...	9.2	41	.00	.00	.13	.13	.40	<100	100	0	0
MAY											
17...	11	49	.07	.10	.13	.09	.30	<100	100	0	0
JUN											
22...	2.4	11	.00	.00	.22	.19	.60	<100	200	0	0
JUL											
25...	.88	3.9	.00	.00	.39	.32	1.0	<100	300	0	0
AUG											
25...	3.4	15	.00	.00	.35	.26	.80	<100	200	0	0
SEP											
21...	6.2	28	.07	.10	.22	.19	.60	<100	100	0	0

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT										
14...	0	700	0	<50	10	140	90	<50	230	10
NOV										
24...	0	200	60	<50	10	90	90	<50	360	0
DEC										
15...	0	200	40	<50	20	70	50	<50	400	10
FEB										
02...	10	300	40	<50	20	1110	1110	<50	330	20
25...	10	600	90	<50	10	140	130	<50	150	10
MAR										
28...	0	2600	60	<50	0	60	20	<50	140	0
APR										
12...	0	300	0	<50	0	30	20	<50	140	0
MAY										
17...	0	1700	20	<50	0	60	0	<50	130	0
JUN										
22...	0	1300	20	<50	10	150	0	<50	150	0
JUL										
25...	10	2000	100	<50	0	260	140	<50	160	20
AUG										
25...	0	3000	40	<50	0	120	40	<50	140	0
SEP										
21...	0	1700	50	<50	0	90	10	<50	200	20

05591500 ASA CREEK AT SULLIVAN, IL

LOCATION.--Lat 39°37'11", long 88°36'17", in NE¼NE¼ sec.35, T.14 N., R.5 E., Moultrie County, Hydrologic Unit 07140201, on right bank at upstream side of highway bridge, 0.4 mi (0.6 km) upstream from Chicago & Eastern Illinois Railroad, 0.8 mi (1.3 km) north of Sullivan, and 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--8.05 mi² (20.85 km²).

PERIOD OF RECORD.--July 1950 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 645.36 ft (196.706 m) above mean sea level. Prior to Sept. 15, 1964, at site 40 ft (12 m) downstream at same datum.

REMARKS.--Records fair except those for winter periods and those for period of indefinite stage-discharge relationship, Oct. 22 to Nov. 30, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--27 years, 5.67 ft³/s (0.161 m³/s), 9.57 in/yr (243 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,460 ft³/s (41.3 m³/s) May 19, 1974, gage height, 12.06 ft (3.676 m), from rating curve extended above 660 ft³/s (18.7 m³/s) on basis of velocity-area study; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 80 ft³/s (2.3 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 6	2200	*491	13.9	*6.98	2.128	Sept. 13	1615	188	5.32	4.67	1.423

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.01	.00	.00	.00	.06	12	2.8	1.8	.55	.00	1.5
2	.02	.00	.00	.00	.00	.05	12	12	1.7	.31	.00	.66
3	.02	.00	.00	.00	.00	.04	9.1	12	1.4	.24	.00	13
4	.02	.00	.00	.00	.00	.20	9.8	9.4	1.4	.21	.00	14
5	.02	.00	.00	.00	.00	.07	7.8	80	1.5	.16	.00	8.3
6	.20	.00	.00	.00	.00	.06	6.1	200	1.5	.13	.00	31
7	.08	.00	.01	.00	.00	.05	6.4	136	1.1	.10	.21	12
8	.03	.00	.02	.00	.00	.04	5.6	46	1.5	.08	.24	3.6
9	.02	.00	.02	.00	.00	.04	5.6	27	1.3	.07	.15	1.2
10	.04	.00	.01	.00	.01	.06	5.6	18	.97	.06	.08	.66
11	.03	.00	.00	.00	.02	.10	5.2	13	1.1	.05	.00	.45
12	.02	.00	.00	.00	.05	10	4.9	10	1.1	.04	.00	.41
13	.02	.00	.00	.00	.10	1.5	4.9	8.8	1.1	.04	.00	66
14	.02	.00	.00	.00	.20	1.0	4.9	7.8	.96	.03	.00	108
15	.02	.00	.01	.00	.30	.80	4.7	6.8	.74	.03	.00	66
16	.00	.01	.02	.00	.15	.60	4.5	5.7	.71	.03	.21	48
17	.00	.00	.01	.00	.02	6.0	4.3	5.3	.70	.02	.33	35
18	.00	.00	.00	.00	.00	4.7	4.1	4.8	.58	.02	.24	28
19	.00	.00	.00	.00	.00	4.7	4.3	4.5	.51	.02	.12	28
20	.01	.00	.00	.00	.00	3.9	3.9	4.1	.46	.01	.10	27
21	.02	.00	.00	.00	.01	11	3.9	3.9	.37	.01	1.4	23
22	.01	.00	.00	.00	.20	11	3.7	3.6	.41	.01	4.3	19
23	.00	.00	.00	.00	.50	8.1	3.7	3.2	.49	.00	2.0	15
24	.00	.00	.00	.00	.15	7.0	3.5	2.9	.43	.00	.54	43
25	.00	.00	.00	.00	.10	6.1	3.3	2.9	.49	.00	.22	46
26	.00	.01	.00	.00	.70	5.2	3.3	2.8	.35	.00	.12	33
27	.00	.02	.00	.00	.15	5.9	3.0	2.7	.39	.00	.10	26
28	.00	.01	.00	.00	.09	36	3.1	2.5	.84	.00	.44	20
29	.00	.00	.00	.00	---	23	2.5	2.3	.57	.00	19	16
30	.01	.00	.00	.00	---	15	2.6	2.0	.50	.00	19	19
31	.02	---	.00	.00	---	13	---	2.0	---	.00	8.1	---
TOTAL	.65	.06	.10	.00	2.75	175.27	158.3	644.8	26.97	2.22	56.90	752.78
MEAN	.021	.002	.003	.000	.098	5.65	5.28	20.8	.90	.072	1.84	25.1
MAX	.20	.02	.02	.00	.70	36	12	200	1.8	.55	19	108
MIN	.00	.00	.00	.00	.00	.04	2.5	2.0	.35	.00	.00	.41
CFSM	.003	.000	.000	.000	.01	.70	.66	2.58	.11	.009	.23	3.12
IN.	.00	.00	.00	.00	.01	.81	.73	2.98	.12	.01	.26	3.48

CAL YR 1976 TOTAL 1000.96 MEAN 2.73 MAX 41 MIN .00 CFSM .34 IN 4.63
WTR YR 1977 TOTAL 1820.80 MEAN 4.99 MAX 200 MIN .00 CFSM .62 IN 8.41

05591950 LAKE SHELBYVILLE NEAR SHELBYVILLE, IL

LOCATION.--Lat 39°24'30", long 88°46'35", in SE¼ sec.8, T.11 N., R.4 E., Shelby County, Hydrologic Unit 07140201, at Shelbyville Dam on Kaskaskia River east of Shelbyville.

DRAINAGE AREA.--1,054 mi² (2,730 km²).

PERIOD OF RECORD.--October 1970 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by a compacted earth-fill structure with a gated concrete chute-type spillway section and a separate gated-outlet structure for low-flow releases. Gate closure was made on Aug. 1, 1970. Gained full winter draw-down pool, elevation, 590.0 ft (179.83 m) on Mar. 17, 1971; gained full pool, elevation, 599.7 ft (182.79 m) on June 5, 1971.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 533,919 acre-ft (658 hm³) June 28, 1974, elevation, 620.29 ft (189.064 m); minimum observed, 8,360 acre-ft (10.3 hm³) Oct. 1, 1970, elevation, 562.00 ft (171.298 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 227,772 acre-ft (281 hm³) May 13, elevation, 601.45 ft (183.322 m); minimum observed, 138,230 acre-ft (170 hm³) Nov. 26, elevation, 592.57 ft (180.615 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	592.75	139769	
Oct. 31	592.84	140541	+ 772
Nov. 30	592.73	139595	- 946
Dec. 31	592.73	139595	0
CAL YR 1976			+ 6104
Jan. 31	592.82	140366	+ 771
Feb. 28	593.72	148264	+ 7898
Mar. 31	596.70	176390	+ 28126
Apr. 30	595.93	168827	- 7563
May 31	599.65	207312	+ 38485
June 30	599.85	209514	+ 2202
July 31	599.67	207534	- 1980
Aug. 31	599.73	208195	+ 661
Sept. 30	600.13	212644	+ 4449
WTR YR 1977			+ 72875

05592000 KASKASKIA RIVER AT SHELBYVILLE, IL

LOCATION.--Lat 39°24'25", long 88°46'50", in SE¼SW¼ sec.8, T.11 N., R.4 E., Shelby County, Hydrologic Unit 07140201, on left bank 700 ft (213 m) downstream from dam, 700 ft (213 m) upstream from bridge on State Highway 16 in Shelbyville, 0.5 mi (0.8 km) upstream from Chicago & Eastern Illinois Railroad bridge, 7 mi (11 km) upstream from Robinson Creek, and at mile 221.5 (356.4 km).

DRAINAGE AREA.--1,054 mi² (2,730 km²).

PERIOD OF RECORD.--February 1908 to September 1912, November to December 1912, August to December 1914, October 1940 to current year.

REVISED RECORDS.--WSP 975: 1908. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 535.78 ft (163.306 m) above mean sea level (levels by Corps of Engineers). Prior to Dec. 6, 1914, nonrecording gage at site 750 ft (229 m) downstream at datum 4.67 ft (1.423 m) lower. Oct. 1 to Dec. 3, 1940, and June 1, 1950, to July 10, 1952, nonrecording gage and Dec. 4, 1940, to May 31, 1950, and July 11, 1952, to June 30, 1969, water-stage recorder, at site 650 ft (198 m) downstream at present datum.

REMARKS.--Records good except those for winter periods, which are poor. Flow regulated by Shelbyville Reservoir (station 05591950), flood-control storage 474,000 acre-ft (584 hm³), beginning June 24, 1969. Several observations of water temperature were made during the year.

COOPERATION.--Thirteen discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--33 years (water years 1909-12, 1941-69), 788 ft³/s (22.32 m³/s), 10.15 in/yr (258 mm/yr), prior to construction of Shelbyville Reservoir. 8 years, 950 ft³/s (26.90 m³/s), since construction of Shelbyville Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,900 ft³/s (733 m³/s) June 29, 1957, gage height, 22.37 ft (6.818 m); no flow at times in 1953-55. Maximum daily since construction of Shelbyville Reservoir, 4,960 ft³/s (140 m³/s) Mar. 6, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,780 ft³/s (78.7 m³/s) Mar. 30, gage height, 8.43 ft (2.569 m); minimum daily, 1.7 ft³/s (0.048 m³/s) Dec. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	9.3	3.4	3.0	5.0	14	2230	33	317	393	28	597
2	6.2	8.7	3.4	3.0	5.0	13	1750	33	27	393	28	526
3	6.8	8.1	3.0	3.0	5.0	15	1450	30	7.6	393	28	526
4	7.2	7.6	3.0	3.0	5.0	13	1290	30	7.6	393	28	372
5	8.6	9.9	3.0	3.0	5.0	13	1290	31	7.6	170	28	146
6	8.1	20	3.0	3.0	7.0	14	1290	33	7.2	18	28	144
7	6.5	32	3.0	3.0	10	15	1290	254	20	18	30	257
8	6.0	31	3.0	3.0	10	15	1280	805	30	18	101	257
9	7.0	20	2.8	3.0	10	11	1160	1230	28	18	150	122
10	7.6	12	2.8	3.2	10	10	1020	1400	26	18	150	49
11	7.6	3.8	2.6	3.2	10	10	907	1400	26	19	150	50
12	9.3	3.8	2.7	3.2	9.3	10	688	1410	27	37	200	52
13	9.3	3.8	2.6	3.2	8.7	10	474	1410	61	52	259	54
14	8.7	3.2	2.6	3.2	12	10	382	1410	213	52	259	152
15	8.7	3.0	2.6	3.2	14	10	374	1410	358	52	335	410
16	9.3	2.7	2.6	3.0	14	10	358	1410	305	50	402	564
17	9.3	2.6	2.4	3.0	14	10	358	1410	270	50	501	567
18	10	3.4	2.3	3.0	18	149	353	1410	270	57	619	570
19	9.9	3.1	2.4	3.0	27	949	325	1300	270	59	616	570
20	9.3	3.4	2.4	3.0	26	1070	295	983	131	60	619	570
21	9.9	3.4	2.3	3.5	26	1030	295	868	52	42	619	567
22	10	3.4	2.1	4.0	26	1140	298	871	52	32	660	679
23	12	3.4	2.0	4.0	28	1540	353	875	52	34	325	754
24	11	3.4	2.0	4.0	25	1780	616	878	53	33	388	758
25	9.3	3.7	2.0	4.0	26	1540	682	878	52	31	714	758
26	8.7	4.0	1.9	5.0	27	1110	631	878	52	27	714	758
27	8.7	3.5	1.7	5.0	26	868	413	878	148	27	718	808
28	9.3	3.4	2.0	5.0	22	1360	317	871	327	27	597	833
29	9.3	3.4	2.5	5.0	---	2320	270	761	302	29	522	948
30	10	3.4	3.0	5.0	---	2660	78	738	450	28	634	886
31	9.9	---	3.0	5.0	---	2620	---	631	---	28	718	---
TOTAL	270.3	226.4	80.1	110.7	431.0	20339	22517	26559	3949.0	2658	11168	14304
MEAN	8.72	7.55	2.58	3.57	15.4	656	751	857	132	85.7	360	477
MAX	12	32	3.4	5.0	28	2660	2230	1410	450	393	718	948
MIN	6.0	2.6	1.7	3.0	5.0	10	78	30	7.2	18	28	49

CAL YR 1976 TOTAL 159136.9 MEAN 435 MAX 4710 MIN 1.7
WTR YR 1977 TOTAL 102612.5 MEAN 281 MAX 2660 MIN 1.7

05592100 KASKASKIA RIVER NEAR COWDEN, IL

LOCATION.--Lat 39°13'50", long 88°50'33", in NW cor. sec.14, T.9 N., R.3 E., Shelby County, Hydrologic Unit 07140201, at midstream on upstream side of bridge on State Highway 128, 0.7 mi (1.1 km) downstream from Richland Creek, 1.5 mi (2.4 km) southeast of Cowden, and at mile 195.4 (314.4 km).

DRAINAGE AREA.--1,330 mi² (3,445 km²).

PERIOD OF RECORD.--July 1970 to current year.

GAGE.--Nonrecording gage. Datum of gage is 500.00 ft (152.400 m) above mean sea level (levels by Corps of Engineers). Prior to July 19, 1976, water-stage recorder 75 ft (23 m) downstream at same datum.

REMARKS.--Records poor. Flow partially regulated by Shelbyville Reservoir (station 05591950) 26 mi (42 km) upstream from gage. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--7 years, 1,197 ft³/s (33.90 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,750 ft³/s (276 m³/s) Feb. 22, 1974, gage height, 18.03 ft (5.496 m); minimum daily, 5.6 ft³/s (0.16 m³/s) Dec. 6, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,890 ft³/s (110 m³/s) Mar. 29, gage height, 14.2 ft (4.33 m), from graph based on gage readings; minimum daily, 5.6 ft³/s (0.16 m³/s) Dec. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	16	6.3	7.0	9.0	52	2580	280	563	700	50	660
2	13	16	6.0	7.0	9.0	39	2300	200	509	600	45	600
3	12	15	6.0	7.0	9.0	42	1900	150	350	550	42	580
4	12	15	6.0	7.0	9.0	52	1600	100	167	450	40	450
5	13	18	6.0	7.0	9.0	46	1500	100	130	250	40	450
6	22	23	5.6	7.0	12	60	1450	200	120	150	40	300
7	26	26	6.0	7.0	12	69	1440	800	110	100	70	250
8	26	35	8.8	7.0	12	79	1400	1000	110	80	200	230
9	15	30	8.6	7.0	12	118	1350	1300	110	65	350	230
10	15	20	8.0	7.0	15	153	1250	1420	120	53	171	150
11	15	8.0	7.5	7.5	15	362	1050	1450	130	44	164	120
12	14	7.5	7.0	8.0	20	1000	770	1460	110	44	158	100
13	12	7.0	6.7	8.0	50	500	600	1470	100	43	300	100
14	12	7.0	7.0	8.0	100	222	500	1470	106	55	300	300
15	13	8.8	7.7	8.0	400	127	450	1470	250	65	370	500
16	13	8.7	6.7	7.5	200	104	450	1450	320	65	500	600
17	13	8.6	9.1	7.5	100	300	450	1450	300	65	600	650
18	15	8.6	9.0	7.5	70	700	430	1450	300	70	650	650
19	15	7.2	8.0	7.5	60	1200	400	1400	280	70	650	640
20	17	7.0	7.5	7.5	50	1500	400	1200	250	70	650	700
21	15	7.0	8.5	8.0	50	1170	380	1000	150	70	650	650
22	15	6.5	9.0	8.5	100	1120	390	950	100	60	650	720
23	20	5.8	8.0	9.0	256	1480	450	950	86	50	500	800
24	40	5.8	7.5	9.0	104	1840	700	940	150	45	783	800
25	57	6.0	7.0	10	69	1600	850	940	300	40	770	800
26	56	6.7	7.0	10	64	1350	800	930	200	40	724	830
27	30	10	7.0	10	64	1250	650	930	250	35	700	820
28	20	9.0	7.0	10	64	2000	500	920	350	35	650	860
29	18	7.0	7.0	9.0	---	3630	400	850	350	35	630	870
30	17	5.8	7.0	9.0	---	2950	350	820	550	40	650	900
31	17	---	7.0	9.0	---	2780	---	750	---	70	660	---
TOTAL	613	362.0	225.5	248.5	1944.0	27895	27740	29800	6921	4109	12757	16310
MEAN	19.8	12.1	7.27	8.02	69.4	900	925	961	231	133	412	544
MAX	57	35	9.1	10	400	3630	2580	1470	563	700	783	900
MIN	12	5.8	5.6	7.0	9.0	39	350	100	86	35	40	100

CAL YR 1976 TOTAL 188740.4 MEAN 516 MAX 4650 MIN 5.6
WTR YR 1977 TOTAL 128925.0 MEAN 353 MAX 3630 MIN 5.6

05592300 WOLF CREEK NEAR BEECHER CITY, IL

LOCATION.--Lat 39°09'30", long 88°48'20", in NE¼NE¼ sec.12, T.8 N., R.3 E., Fayette County, Hydrologic Unit 07140202, on left bank at downstream side of bridge on State Highway 128, 2.2 mi (3.5 km) southwest of Beecher City and 5 mi (8 km) above mouth.

DRAINAGE AREA.--47.9 mi² (124.1 km²).

PERIOD OF RECORD.--December 1958 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 535.48 ft (163.214 m) above mean sea level.

REMARKS.--Records good except those for winter periods and those for period of no gage-height record, Mar. 30 to Apr. 28, which are poor. Several observations of water temperatures were made during the year.

AVERAGE DISCHARGE.--18 years (water years 1960-77), 33.8 ft³/s (0.957 m³/s), 9.58 in/yr (243 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,480 ft³/s (212 m³/s) Apr. 19, 1970, gage height, 13.17 ft (4.014 m), from rating curve extended above 4,000 ft³/s (113 m³/s); no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,560 ft³/s (72.5 m³/s) Mar. 28, gage height, 11.31 ft (3.447 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.1	.49	.00	.00	32	8.0	4.7	5.5	159	2.5	1.1
2	.00	1.2	.40	.00	.00	16	40	4.7	4.5	92	1.6	.76
3	.00	.57	.32	.00	.00	48	25	4.2	4.0	48	.74	.66
4	.00	.32	.32	.00	.00	139	17	3.9	4.0	27	.39	5.3
5	.10	.25	.29	.00	.00	28	13	25	4.0	17	.28	13
6	.13	.20	.40	.00	.00	13	10	293	3.5	12	.20	4.5
7	.00	.15	.48	.00	.00	8.9	8.0	157	3.0	9.4	3.2	2.2
8	.00	.09	.37	.00	.00	6.5	7.0	32	3.5	7.9	6.8	1.6
9	.00	.14	.32	.00	.00	5.4	6.5	14	4.5	6.7	106	1.1
10	.00	.16	.52	.00	.50	4.7	6.0	8.9	6.0	5.7	4.4	.75
11	.00	.13	.30	.00	10	19	5.5	7.1	4.0	4.9	2.3	.54
12	.00	.09	.30	.00	53	425	5.0	5.9	3.0	4.3	1.7	43
13	.00	.05	.20	.00	238	48	4.7	5.1	2.5	3.7	1.5	63
14	.00	.04	.20	.00	104	23	4.4	4.5	1.4	3.3	1.3	27
15	.00	.04	.10	.00	51	15	4.1	3.8	1.4	2.9	1.2	6.1
16	.00	.03	.00	.00	40	11	3.8	3.1	.74	2.6	1.1	3.4
17	.00	.04	.00	.00	28	12	3.5	2.7	.45	2.3	1.0	2.3
18	.00	.07	.00	.00	23	8.9	3.5	2.3	.24	2.1	.91	2.9
19	.00	.10	.00	.00	41	7.0	3.5	1.4	.17	1.9	.85	125
20	.00	.15	.00	.00	51	6.0	5.0	1.0	.14	1.8	.78	11
21	.00	.20	.00	.00	33	10	4.5	1.0	.01	1.6	7.4	5.3
22	.00	.21	.00	.00	31	16	4.0	5.0	.56	1.5	4.0	3.9
23	.97	.21	.00	.00	241	13	3.7	3.5	.74	1.5	2.1	3.1
24	50	.25	.00	.00	190	8.7	3.5	3.0	4.9	1.4	1.8	132
25	11	.27	.00	.00	18	7.2	3.3	2.5	42	1.7	1.3	27
26	2.0	.57	.00	.00	17	6.3	6.0	2.2	8.0	.83	1.0	7.6
27	.75	.81	.00	.00	51	82	6.0	2.2	2.2	.46	.87	5.1
28	.34	.76	.00	.00	33	1390	6.0	10	9.8	.28	.78	3.5
29	.19	.52	.00	.00	---	398	5.7	20	17	.21	1.3	3.0
30	.83	.44	.00	.00	---	41	5.1	9.0	35	.21	1.9	5.1
31	2.0	---	.00	.00	---	15	---	7.0	---	2.1	2.0	---
TOTAL	68.31	9.16	5.01	.00	1253.50	2863.6	231.3	649.7	176.75	426.29	163.20	510.81
MEAN	2.20	.31	.16	.000	44.8	92.4	7.71	21.0	5.89	13.8	5.26	17.0
MAX	50	1.2	.52	.00	241	1390	40	293	42	159	106	132
MIN	.00	.03	.00	.00	.00	4.7	3.3	1.0	.01	.21	.20	.54
CFSM	.05	.006	.003	.000	.94	1.93	.16	.44	.12	.29	.11	.36
IN.	.05	.01	.00	.00	.97	2.22	.18	.50	.14	.33	.13	.40

CAL YR 1976 TOTAL 5560.21 MEAN 15.2 MAX 763 MIN .00 CFSM .32 IN 4.32
WTR YR 1977 TOTAL 6357.63 MEAN 17.4 MAX 1390 MIN .00 CFSM .36 IN 4.94

05592500 KASKASKIA RIVER AT VANDALIA, IL

LOCATION.--Lat 38°57'35", long 89°05'20", in SE¼ sec.16, T.6 N., R.1 E., Fayette County, Hydrologic Unit 07140202, on right bank at upstream side of Gallatin Street Bridge in Vandalia, 3.5 mi (5.6 km) upstream from Hickory Creek and at mile 160.85 (258.81 km).

DRAINAGE AREA.--1,940 mi^2 (5,025 km^2).

PERIOD OF RECORD.--February 1908 to December 1912, August 1914 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1208: 1919. WSP 1508: 1912, 1915(M), 1917-18(M), 1923(M), 1925(M), 1928-31(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 453.30 ft (138.166 m) above mean sea level. Prior to Oct. 1, 1933, nonrecording gage at present site at datum 2.00 ft (0.610 m) higher. Oct. 1, 1933, to Sept. 23, 1968, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Flow partially regulaged since June 24, 1969, by Shelbyville Reservoir (station 05591950) 45 mi (72 km) above gage. Several observations of water temperature were made during the year.

COOPERATION.--Eight discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--59 years, 1,412 ft^3/s (39.99 m^3/s), 9.88 in/yr (251 mm/yr), prior to construction of Shelbyville Reservoir. 8 years, 1,789 ft^3/s (50.66 m^3/s), since construction of Shelbyville Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 62,700 ft^3/s (1,780 m^3/s) June 29, 1957; maximum gage height, 27.39 ft (8.348 m) June 29, 1951; minimum discharge observed, 3.5 ft^3/s (0.099 m^3/s) Aug. 22, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,640 ft^3/s (273 m^3/s) Mar. 30, gage height, 20.56 ft (6.267 m); minimum daily, 17 ft^3/s (0.48 m^3/s) Dec. 23-29, Feb. 5-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	85	26	20	18	485	4140	478	770	1650	466	696
2	29	75	25	20	18	412	3240	392	632	1530	342	721
3	27	64	24	20	18	358	2710	338	430	717	207	604
4	26	56	21	20	18	1100	2090	295	253	540	157	556
5	32	50	21	20	17	1210	1790	266	194	483	133	888
6	67	46	24	20	17	623	1650	522	162	444	119	590
7	71	41	22	20	17	371	1590	2000	145	326	193	331
8	74	40	24	20	17	264	1540	1380	137	185	1220	229
9	60	38	22	20	17	212	1510	1010	137	148	817	271
10	50	37	22	20	20	179	1470	1220	138	137	864	275
11	42	36	20	20	50	191	1330	1480	174	138	411	232
12	37	36	20	19	86	2670	1230	1520	168	122	287	197
13	34	36	25	19	1340	5380	1080	1520	167	118	249	1040
14	31	37	22	19	1920	2920	891	1520	280	107	240	1080
15	27	38	23	19	1210	985	721	1510	195	98	305	745
16	25	37	20	19	678	849	640	1500	221	99	328	462
17	23	36	20	19	474	445	596	1490	341	98	334	510
18	23	33	21	19	329	451	572	1480	325	95	490	585
19	26	32	23	19	236	418	553	1480	294	92	530	680
20	29	32	21	19	238	573	550	1460	289	86	578	1040
21	29	31	18	19	288	1160	555	1290	282	89	598	713
22	29	30	18	18	305	1240	515	1070	260	112	731	632
23	41	28	17	18	481	1330	499	1010	174	112	701	611
24	150	25	17	18	1780	1480	728	996	338	98	747	728
25	350	25	17	18	1290	1700	1130	985	948	2110	493	972
26	240	29	17	18	586	1680	1060	982	836	5000	429	937
27	131	31	17	18	738	1550	974	974	434	2050	675	848
28	85	32	17	18	637	4900	836	963	363	450	695	815
29	66	30	17	18	---	8460	652	963	880	256	750	842
30	70	27	19	18	---	9420	553	941	770	266	805	863
31	78	---	19	18	---	7090	---	812	---	226	713	---
TOTAL	2032	1173	639	590	12843	60106	37395	33847	10737	17982	15607	19693
MEAN	65.5	39.1	20.6	19.0	459	1939	1247	1092	358	580	503	656
MAX	350	85	26	20	1920	9420	4140	2000	948	5000	1220	1080
MIN	23	25	17	18	17	179	499	266	137	86	119	197

CAL YR 1976 TOTAL 250642 MEAN 685 MAX 7650 MIN 17
WTR YR 1977 TOTAL 212644 MEAN 583 MAX 9420 MIN 17

05592800 HURRICANE CREEK NEAR MULBERRY GROVE, IL

LOCATION.--Lat 38°55'21", long 89°14'14", in NW¼SE¼ sec.31, T.6 N., R.1 W., Fayette County, Hydrologic Unit 07140202, on left bank at upstream side of bridge on State Highway 140, 300 ft (91 m) downstream from Penn Central bridge, 1 mi (2 km) east of Mulberry Grove, and at mile 10.0 (16.1 km).

DRAINAGE AREA.--152 mi² (394 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 467.00 ft (142.342 m) above mean sea level. Prior to Oct. 1, 1975, at same site at datum 0.30 ft (0.091 m) lower.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

COOPERATION.--Ten discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--7 years, 125 ft³/s (3.540 m³/s), 11.17 in/yr (284 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,440 ft³/s (267 m³/s) Mar. 28, 1977, gage height, 18.11 ft (5.520 m); minimum daily, 0.14 ft³/s (0.004 m³/s) July 24, 26, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 12	1345	2390	67.7	14.48	4.414	June 28	0130	1900	53.8	13.45	4.100
Mar. 28	2200	*9440	267	*18.11	5.520						

Minimum daily discharge, 1.5 ft³/s (0.042 m³/s) Jan. 28 to Feb. 9, Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	23	6.8	2.4	1.5	95	82	11	10	140	6.1	5.6
2	2.5	14	7.3	2.2	1.5	59	124	11	8.4	35	5.5	3.9
3	2.2	11	7.0	2.0	1.5	151	74	13	7.4	23	3.5	3.2
4	2.0	9.5	7.3	2.0	1.5	500	57	11	7.1	18	2.8	3.4
5	3.0	8.6	7.3	2.0	1.5	91	53	10	6.9	16	2.5	17
6	66	8.2	7.9	2.0	1.5	46	44	51	6.5	13	2.0	6.9
7	28	7.7	7.7	2.0	1.5	36	38	244	5.7	11	105	3.7
8	12	7.2	7.5	2.0	1.5	31	34	50	6.6	9.7	193	2.7
9	7.3	7.5	6.8	2.0	1.5	28	31	35	12	8.7	81	2.3
10	5.6	7.1	6.8	2.0	10	23	29	29	17	8.3	30	1.7
11	4.8	6.8	6.5	2.0	70	71	27	25	22	33	14	1.5
12	4.2	6.1	6.5	2.0	400	2020	24	21	11	17	9.4	26
13	3.7	5.9	6.0	2.0	800	1340	22	18	115	9.0	7.6	482
14	3.2	6.1	6.0	2.0	400	123	21	16	92	7.1	6.6	164
15	3.0	6.2	6.0	2.0	150	79	20	14	22	6.0	6.0	45
16	2.7	6.3	6.0	2.0	80	60	18	13	10	5.2	5.6	26
17	2.5	6.2	6.0	2.0	60	51	17	11	7.1	4.7	6.9	16
18	2.5	6.4	6.5	2.0	40	67	16	10	5.4	4.3	5.0	11
19	3.2	6.6	6.5	2.0	30	51	16	9.0	4.5	4.1	4.2	15
20	3.7	6.6	7.0	2.0	25	46	19	8.0	4.1	4.4	3.7	9.8
21	3.9	6.5	7.0	2.0	22	41	18	8.0	3.7	4.1	3.7	6.6
22	3.3	6.1	5.5	2.0	20	60	18	15	16	16	3.4	5.6
23	7.2	5.7	5.5	2.0	85	58	17	14	24	7.7	52	5.0
24	328	5.9	5.0	2.0	389	44	16	12	581	4.1	238	4.8
25	114	6.2	4.5	2.0	51	37	16	9.0	717	99	23	4.6
26	25	7.0	4.0	1.8	70	34	14	8.0	525	120	10	4.4
27	14	13	3.5	1.6	144	177	12	7.0	1480	16	6.6	5.0
28	10	12	3.2	1.5	84	2640	12	23	930	8.3	5.0	4.2
29	8.7	8.5	3.0	1.5	---	4440	11	68	164	5.7	8.0	4.0
30	15	7.0	2.8	1.5	---	267	11	26	60	4.3	14	3.8
31	39	---	2.6	1.5	---	100	---	14	---	4.4	9.4	---
TOTAL	733.2	244.9	182.0	60.0	2943.5	12866	911	814.0	4881.4	667.1	873.5	894.7
MEAN	23.7	8.16	5.87	1.94	105	415	30.4	26.3	163	21.5	28.2	29.8
MAX	328	23	7.9	2.4	800	4440	124	244	1480	140	238	482
MIN	2.0	5.7	2.6	1.5	1.5	23	11	7.0	3.7	4.1	2.0	1.5
CFSM	.16	.05	.04	.01	.69	2.73	.20	.17	1.07	.14	.19	.20
IN.	.18	.06	.04	.01	.72	3.15	.22	.20	1.19	.16	.21	.22

CAL YR 1976 TOTAL 16714.11 MEAN 45.7 MAX 2540 MIN .14 CFSM .30 IN 4.09
WTR YR 1977 TOTAL 26071.30 MEAN 71.4 MAX 4440 MIN 1.5 CFSM .47 IN 6.38

05592990 CARLYLE LAKE NEAR CARLYLE, IL

LOCATION.--Lat 38°37'00", long 89°21'10", in NE¼ sec.18, T.2 N., R.2 W., Clinton County, Hydrologic Unit 07140202, at dam on Kaskaskia River northeast of Carlyle.

DRAINAGE AREA.--2,717 mi^2 (7,037 km^2).

PERIOD OF RECORD.--May 1967 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by a compacted earth embankment section and a concrete gated spillway section with two auxiliary saddle dams along the reservoir rim. Gates first closed Apr. 1, 1967. Gained full pool, elevation, 433.3 ft (132.07 m) on May 8, 1967.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 627,780 acre-ft (774 hm^3) Jan. 7, 1973, elevation, 455.54 ft (138.849 m); minimum observed, 53,600 acre-ft (66.1 hm^3) Mar. 28, 1968, elevation, 429.90 ft (131.034 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 293,990 acre-ft (362 hm^3) July 27, elevation, 445.54 ft (135.801 m); minimum observed, 177,560 acre-ft (219 hm^3) Oct. 21, elevation, 440.12 ft (134.149 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	440.49	184264	
Oct. 31	440.49	184264	0
Nov. 30	440.34	181408	- 2856
Dec. 31	440.36	181765	+ 357
CAL YR 1976			- 46534
Jan. 31	440.42	182876	+ 1111
Feb. 28	443.04	235517	+ 52641
Mar. 31	445.32	288516	+ 52999
Apr. 30	443.19	238790	- 49726
May 31	444.98	280185	+ 41395
June 30	445.27	287286	+ 7101
July 31	445.14	284073	- 3213
Aug. 31	445.08	282565	- 1508
Sept. 30	444.91	278519	- 4046
WTR YR 1977			+ 94255

05593000 KASKASKIA RIVER AT CARLYLE, IL

LOCATION.--Lat 38°36'42", long 89°21'22", in SE¼ sec.18, T.2 N., R.2 W., Clinton County, Hydrologic Unit 07140202, on left bank at downstream side of bridge on U.S. Highway 50 at Carlyle, 16.5 mi (26.5 km) upstream from Crooked Creek and at mile 105.75 (170.15 km).

DRAINAGE AREA.--2,719 mi² (7,042 km²).

PERIOD OF RECORD.--March 1908 to September 1912, November to December 1912, August 1914 to September 1915, May 1938 to current year.

REVISED RECORDS.--WSP 975: 1908-12, 1915. WDR IL-75· Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 402.92 ft (122.810 m) above mean sea level. Prior to July 1, 1938, nonrecording gage at site 400 ft (122 m) downstream at same datum. July 1, 1938, to Sept. 30, 1940, nonrecording gage at present site and datum.

REMARKS.--Records good. Flow regulated since Apr. 1, 1967, by Carlyle Reservoir (station 05592990) 1 mi (2 km) above gage. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--33 years, 1,944 ft³/s (55.05 m³/s), 9.71 in/yr (247 mm/yr), prior to construction of Carlyle Reservoir. 10 years, 2,296 ft³/s (65.02 m³/s), since construction of Carlyle Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,400 ft³/s (1,540 m³/s) May 21, 1943, gage height, 33.69 ft (10.269 m); minimum, 7.3 ft³/s (0.21 m³/s) Nov. 12, 1964, result of dam construction upstream; minimum unregulated discharge, 11 ft³/s (0.31 m³/s) Sept. 17, 1954. Maximum daily discharge since construction of Carlyle Reservoir, 10,200 ft³/s (289 m³/s) May 7-10, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,630 ft³/s (244 m³/s) Mar. 31, gage height, 23.57 ft (7.184 m); minimum daily, 41 ft³/s (1.16 m³/s) Oct. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	46	47	50	47	387	8260	169	748	1740	866	1150
2	41	45	47	50	47	644	7800	60	293	1950	653	958
3	41	46	47	50	47	714	7250	61	56	1830	295	695
4	43	46	47	50	47	1230	6820	61	56	1440	130	524
5	49	45	47	50	47	2020	6640	61	56	1030	46	531
6	49	44	47	50	47	2190	6160	61	54	728	46	576
7	44	44	47	48	47	1900	5490	65	56	463	48	50
8	44	44	47	47	47	1490	4590	60	54	122	325	45
9	44	44	47	46	47	1020	3550	263	57	56	664	47
10	44	44	47	47	48	712	2920	817	58	56	818	47
11	44	44	47	47	49	517	2790	950	58	65	962	46
12	45	43	47	46	52	1790	2530	950	58	57	965	56
13	46	43	46	47	46	4410	2340	948	62	58	785	391
14	46	43	46	47	45	5690	2040	847	122	58	617	1170
15	46	43	46	47	44	5680	1680	747	324	76	613	1490
16	46	43	47	47	44	4820	1360	564	274	61	611	989
17	46	43	47	47	45	3880	1090	312	242	60	611	547
18	46	43	48	47	47	3560	827	297	241	72	612	504
19	46	43	49	47	47	3090	649	274	242	60	610	601
20	46	43	49	47	47	1890	645	209	241	60	607	716
21	46	43	49	47	47	1220	625	210	235	61	509	766
22	46	43	49	47	49	1340	564	211	236	72	478	819
23	50	43	49	47	61	1610	634	210	241	60	639	817
24	50	43	49	47	50	1750	633	209	366	57	630	823
25	49	43	49	47	49	1810	630	304	818	60	809	818
26	48	45	49	47	70	1930	734	394	1390	291	944	816
27	46	47	49	47	51	2030	790	450	1580	1410	942	867
28	46	47	49	47	95	3750	685	741	1480	1860	944	921
29	45	47	49	47	---	5730	771	950	1340	1860	1010	917
30	49	47	50	47	---	7630	459	1050	1680	1700	1150	917
31	46	---	50	47	---	8480	---	989	---	1260	1150	---
TOTAL	1419	1327	1483	1474	1409	84914	81956	13494	12718	18733	20089	19614
MEAN	45.8	44.2	47.8	47.5	50.3	2739	2732	435	424	604	648	654
MAX	50	47	50	50	95	8480	8260	1050	1680	1950	1150	1490
MIN	41	43	46	46	44	387	459	60	54	56	46	45

CAL YR 1976 TOTAL 323456 MEAN 884 MAX 6520 MIN 41
WTR YR 1977 TOTAL 258630 MEAN 709 MAX 8480 MIN 41

05593520 CROOKED CREEK NEAR HOFFMAN, IL

LOCATION.--Lat 38°30'25", long 89°16'24", in NE¼ sec.26, T.1 N., R.2 W., Washington County, Hydrologic Unit 07140202, in midstream at downstream side of Hoyleton Road bridge, 2.2 mi (3.5 km) southwest of Hoffman, 4.8 mi (7.7 km) southeast of Posey, and about 9 mi (14 km) above State Highway 127.

DRAINAGE AREA.--254 mi² (658 km²).

PERIOD OF RECORD.--October 1974 to current year. Gage-height record for October 1968 to September 1974 available in files of Illinois district office.

GAGE.--Water-stage recorder. Datum of gage is 420.19 ft (128.074 m) above mean sea level.

REMARKS.--Records good except those for period of no gage-height record, Jan. 15 to Feb. 17, which are poor. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,750 ft³/s (191 m³/s) Feb. 24, 1975, gage height, 14.87 ft (4.532 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Sept. 25, 26, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,390 ft³/s (181 m³/s) Mar. 29, gage height, 14.77 ft (4.502 m); minimum daily, 3.0 ft³/s (0.085 m³/s) Jan. 6-10, Jan. 16 to Feb. 1, Feb. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	27	6.9	5.0	3.0	161	1100	43	9.9	58	10	39
2	5.0	24	7.1	4.5	3.5	83	162	27	8.8	40	9.2	26
3	5.1	22	9.0	4.5	3.5	76	165	21	8.1	25	8.8	19
4	4.9	16	11	4.0	4.0	564	97	18	7.1	19	8.3	14
5	5.0	13	10	3.5	4.0	489	77	16	6.7	16	8.2	11
6	24	10	9.6	3.0	4.0	211	55	17	6.3	14	8.1	9.4
7	30	8.2	9.8	3.0	3.5	89	45	1110	6.3	13	8.0	9.0
8	17	7.5	9.8	3.0	3.0	54	36	1280	6.1	12	8.1	8.3
9	10	6.5	9.7	3.0	4.0	39	30	321	5.9	35	9.6	7.6
10	9.3	5.5	8.7	3.0	15	32	25	83	5.8	27	112	8.1
11	6.7	5.3	9.0	3.5	50	29	22	44	6.7	144	116	8.2
12	5.1	4.9	10	3.5	100	1110	20	30	6.8	203	105	7.6
13	4.8	4.5	11	3.5	130	1920	18	23	13	494	105	7.2
14	4.5	4.3	10	3.5	150	1510	17	19	20	191	53	7.5
15	4.0	4.1	9.1	3.5	100	385	16	15	13	42	44	7.4
16	3.6	3.8	9.0	3.0	60	88	14	13	9.3	24	34	8.2
17	3.7	3.7	9.8	3.0	40	91	14	12	9.1	18	28	8.2
18	4.2	3.7	10	3.0	30	64	14	11	9.2	14	19	9.6
19	4.6	4.0	9.9	3.0	25	68	13	10	7.6	12	14	8.8
20	4.6	4.0	9.3	3.0	20	59	12	9.1	6.5	10	11	8.1
21	5.8	4.1	9.1	3.0	17	51	12	8.6	6.0	9.7	9.5	8.3
22	5.3	4.2	8.7	3.0	15	81	12	8.3	8.4	44	8.8	7.9
23	5.5	4.2	8.2	3.0	40	47	14	7.7	12	23	22	7.7
24	19	4.3	7.5	3.0	297	36	37	8.2	15	14	372	8.3
25	24	5.5	7.0	3.0	208	34	44	9.9	160	11	297	14
26	23	6.9	6.5	3.0	146	30	42	8.4	72	12	81	22
27	23	7.2	6.0	3.0	565	88	29	7.5	32	9.3	34	35
28	15	7.3	6.0	3.0	391	3800	22	7.2	26	9.8	23	24
29	10	7.5	5.5	3.0	---	5880	27	8.7	24	12	112	18
30	9.4	7.2	5.5	3.0	---	4290	73	14	24	12	142	14
31	31	---	5.0	3.0	---	2410	---	12	---	11	66	---
TOTAL	332.2	240.4	263.7	102.0	2431.5	23869	2264	3222.6	551.6	1578.8	1886.6	391.4
MEAN	10.7	8.01	8.51	3.29	86.8	770	75.5	104	18.4	50.9	60.9	13.0
MAX	31	27	11	5.0	565	5880	1100	1280	160	494	372	39
MIN	3.6	3.7	5.0	3.0	3.0	29	12	7.2	5.8	9.3	8.0	7.2
CFSM	.04	.03	.03	.01	.34	3.03	.30	.41	.07	.20	.24	.05
IN.	.05	.04	.04	.01	.36	3.50	.33	.47	.08	.23	.28	.06

CAL YR 1976 TOTAL 17707.0 MEAN 48.4 MAX 1630 MIN 2.1 CFSM .19 IN 2.59
WTR YR 1977 TOTAL 37133.8 MEAN 102 MAX 5880 MIN 3.0 CFSM .40 IN 5.44

05593575 LITTLE CROOKED CREEK NEAR NEW MINDEN, IL

LOCATION.--Lat 38°26'30", long 89°25'00", in center of sec.15, T.1 S., R.3 W., Washington County, Hydrologic Unit 07140202, on downstream side of bridge on State Highway 177, 2.5 mi (4.0 km) west of New Minden and 7.0 mi (11.3 km) northwest of Nashville.

DRAINAGE AREA.--84.3 mi² (218.3 km²).

PERIOD OF RECORD.--October 1967 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (122 m), from topographic map. Prior to July 2, 1973, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods and those for period of no gage-height record, Aug. 12 to Sept. 12, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--10 years, 62.8 ft³/s (1.778 m³/s), 10.12 in/yr (257 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,900 ft³/s (309 m³/s) Dec. 21, 1967, gage height, 21.00 ft (6.401 m); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,100 ft³/s (229 m³/s) Mar. 28, gage height, 15.15 ft (4.618 m); no flow for several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	13	.93	.00	.10	13	21	7.0	.58	7.8	.80	7.0
2	.59	3.4	.98	.00	.20	11	31	6.5	.54	3.2	.64	5.0
3	.46	.86	.88	.00	.20	35	82	6.0	.49	3.6	.55	4.0
4	.36	.21	.81	.00	.20	324	22	5.5	.36	3.2	.54	3.0
5	.71	.13	.69	.00	.20	57	14	5.0	.35	2.3	.50	2.5
6	64	.12	.80	.00	.10	13	11	41	.31	1.7	.39	2.0
7	26	.15	.85	.00	.10	5.9	8.9	610	.21	1.3	.36	1.7
8	7.2	.92	.85	.00	.10	3.6	7.3	313	.17	.96	.35	1.3
9	3.1	1.3	.91	.00	.50	2.5	6.4	21	.17	.81	2.6	1.0
10	1.7	.92	.95	.00	3.0	2.0	6.3	8.4	.17	25	75	7.0
11	1.0	.63	1.0	.10	10	8.7	6.4	4.6	.17	181	46	.60
12	1.0	.50	1.0	.20	30	997	5.7	2.9	.18	69	90	.50
13	2.1	.49	.84	.20	50	844	5.1	2.2	3.7	11	30	.40
14	1.8	.49	.69	.20	60	50	5.0	1.9	4.1	5.5	100	.21
15	1.5	.49	.62	.20	22	16	4.9	1.7	3.1	3.1	30	.19
16	1.5	.49	.53	.20	7.6	9.3	4.3	1.5	1.2	2.2	15	.25
17	1.4	.51	.49	.10	4.3	6.2	4.2	1.3	.64	1.7	8.0	.24
18	1.2	.54	.46	.10	2.6	37	4.2	1.2	.47	1.4	6.0	.35
19	1.1	.54	.44	.10	1.9	40	5.9	.98	.36	1.2	5.0	.78
20	1.2	.54	.44	.10	1.7	12	7.4	.83	.31	.96	4.0	1.7
21	1.2	.54	.41	.10	1.3	6.7	8.9	.72	.23	1.5	3.5	1.0
22	1.3	.54	.31	.10	.87	4.9	8.7	.64	.30	26	3.0	.48
23	2.9	.51	.27	.10	31	4.2	8.1	.60	.35	5.5	150	.34
24	11	.54	.23	.10	237	3.4	8.1	.60	1.4	2.2	50	.30
25	11	.54	.20	.10	23	3.1	8.2	.58	6.9	8.7	20	.31
26	5.8	.62	.15	.10	58	2.6	9.1	.54	5.6	15	10	.54
27	2.9	.65	.10	.10	350	122	8.6	.54	29	5.3	6.0	1.0
28	2.0	.65	.10	.10	38	4740	8.1	.86	37	2.4	4.0	.56
29	1.3	.71	.10	.10	---	1820	7.8	.91	8.3	1.5	50	.32
30	20	.91	.10	.10	---	134	7.3	.71	6.0	1.1	20	.34
31	53	---	.10	.10	---	30	---	.60	---	.92	10	---
TOTAL	231.03	32.44	17.23	2.60	933.97	9358.1	345.9	1049.81	112.66	397.05	742.23	44.91
MEAN	7.45	1.08	.56	.084	33.4	302	11.5	33.9	3.76	12.8	23.9	1.50
MAX	64	13	1.0	.20	350	4740	82	610	37	181	150	7.0
MIN	.36	.12	.10	.00	.10	2.0	4.2	.54	.17	.81	.35	.19
CFSM	.09	.01	.007	.001	.40	3.58	.14	.40	.05	.15	.28	.02
IN.	.10	.01	.01	.00	.41	4.13	.15	.46	.05	.18	.33	.02

CAL YR 1976 TOTAL 2625.63 MEAN 7.17 MAX 293 MIN .00 CFSM .09 IN 1.16
WTR YR 1977 TOTAL 13267.93 MEAN 36.4 MAX 4740 MIN .00 CFSM .43 IN 5.85

05593600 BLUE GRASS CREEK NEAR RAYMOND, IL

LOCATION.--Lat 39°16'07", long 89°32'02", in NE¼SE¼ sec.33, T.10 N., R.4 W., Montgomery County, Hydrologic Unit 07140203, on right bank at downstream side of highway bridge, 0.8 mi (1.3 km) east of State Highway 127, 2.7 mi (4.3 km) upstream from mouth, and 4.0 mi (6.4 km) southeast of Raymond.

DRAINAGE AREA.--17.3 mi² (44.8 km²).

PERIOD OF RECORD.--May 1960 to current year.

REVISED RECORDS.--WSP 1915: 1960(P). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 598.08 ft (182.295 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--17 years, 11.6 ft³/s (0.329 m³/s), 9.11 in/yr (231 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,140 ft³/s (60.6 m³/s) Apr. 21, 1973, gage height, 12.80 ft (3.901 m), from rating curve extended above 580 ft³/s (16.4 m³/s); maximum gage height, 14.79 ft (4.508 m) Oct. 12, 1969; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 28	0915	650	18.4	10.04	3.060	May 6	0415	*945	26.8	*11.04	3.365

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.26	.00	.00	.00	.56	3.4	.10	.80	42	.10	.20
2	.00	.15	.00	.00	.00	.48	4.4	2.9	.80	11	.05	.10
3	.00	.08	.00	.00	.00	7.3	2.4	6.7	.80	5.7	.00	.00
4	.00	.02	.00	.00	.00	3.2	2.4	1.8	.95	3.6	.00	.50
5	.00	.00	.00	.00	.00	1.3	2.0	33	.80	2.4	.00	2.5
6	.30	.00	.00	.00	.00	.56	1.4	398	.80	1.9	.00	.00
7	.15	.00	.00	.00	.00	.48	1.3	48	.80	1.5	.00	.00
8	.00	.00	.00	.00	.00	.30	.95	21	.80	1.2	.00	.00
9	.00	.00	.00	.00	.00	.20	.95	13	1.3	1.0	.00	.00
10	.00	.00	.00	.00	5.0	.15	.84	8.9	1.1	1.1	.00	.00
11	.00	.00	.00	.00	17	.35	.64	6.3	1.1	.90	.00	.00
12	.00	.00	.00	.00	20	28	.56	4.8	2.0	.80	.00	1.5
13	.00	.00	.00	.00	18	3.0	.64	4.2	2.5	.70	.00	23
14	.00	.00	.00	.00	8.0	2.0	.56	3.8	2.1	.60	.00	12
15	.00	.00	.00	.00	4.0	1.5	.48	3.2	1.5	.50	.00	1.8
16	.00	.00	.00	.00	3.0	1.2	.42	2.8	1.1	.40	.00	.00
17	.00	.00	.00	.00	2.5	1.4	.35	2.5	.90	.35	.00	1.0
18	.00	.00	.00	.00	2.5	1.4	.35	2.2	.70	.30	.00	.00
19	.00	.00	.00	.00	3.5	.95	.35	2.0	.50	.30	.00	.00
20	.00	.00	.00	.00	5.6	.74	.30	2.0	.40	.30	.00	.00
21	.00	.00	.00	.00	4.0	.74	.30	1.9	.42	.20	.00	.00
22	.00	.00	.00	.00	13	.64	.30	1.7	.40	2.8	.00	.00
23	.14	.00	.00	.00	14	1.1	.30	1.5	.40	1.4	.00	.00
24	4.1	.00	.00	.00	3.1	.74	.30	1.2	40	.50	.00	.50
25	.97	.00	.00	.00	1.4	.64	.20	1.5	29	10	.00	.00
26	.28	.05	.00	.00	.95	.56	.20	2.5	22	.50	.00	.00
27	.13	.03	.00	.00	.84	3.1	.15	1.5	12	.30	.00	.00
28	.05	.00	.00	.00	.42	182	.20	1.1	10	.20	5.0	.00
29	.02	.00	.00	.00	---	15	.05	.90	7.2	.10	14	.00
30	.29	.00	.00	.00	---	6.5	.05	.90	65	.10	.50	.00
31	.54	---	.00	.00	---	4.2	---	.80	---	1.8	.30	---
TOTAL	6.97	.59	.00	.00	126.81	270.29	26.74	582.70	208.17	94.45	19.95	43.10
MEAN	.22	.020	.000	.000	4.53	8.72	.89	18.8	6.94	3.05	.64	1.44
MAX	4.1	.26	.00	.00	20	182	4.4	398	65	42	14	23
MIN	.00	.00	.00	.00	.00	.15	.05	.10	.40	.10	.00	.00
CFSM	.01	.001	.000	.000	.26	.50	.05	1.09	.40	.18	.04	.08
IN.	.01	.00	.00	.00	.27	.58	.06	1.25	.45	.20	.04	.09

CAL YR 1976 TOTAL 878.06 MEAN 2.40 MAX 172 MIN .00 CFSM .14 IN 1.89
WTR YR 1977 TOTAL 1379.77 MEAN 3.78 MAX 398 MIN .00 CFSM .22 IN 2.97

05593900 EAST FORK SHOAL CREEK NEAR COFFEEN, IL

LOCATION.--Lat 39°08'56", long 89°21'08", in NW¼SE¼ sec.7, T.8 N., R.2 W., Montgomery County, Hydrologic Unit 07140203, on right bank at downstream side of county highway bridge, 4.5 mi (7.2 km) northeast of Coffeen and 6.5 mi (10.5 km) east of Hillsboro.

DRAINAGE AREA.--55.5 mi² (143.7 km²).

PERIOD OF RECORD.--October 1963 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 574.76 ft (175.187 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--14 years, 40.2 ft³/s (1.138 m³/s), 9.84 in/yr (250 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,910 ft³/s (167 m³/s) Dec. 7, 1966, gage height, 14.45 ft (4.404 m), from rating curve extended above 2,200 ft³/s (62.3 m³/s); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,850 ft³/s (52.4 m³/s) Mar. 28, gage height, 12.37 ft (3.770 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.0	.10	.00	.00	15	17	3.6	.03	27	2.3	1.2
2	.00	.85	.08	.00	.00	12	16	3.0	.02	11	1.3	.72
3	.00	.55	.08	.00	.00	94	13	2.7	.00	3.3	.57	.49
4	.00	.37	.09	.00	.00	103	11	2.4	.00	1.5	.39	.37
5	.00	.48	.10	.00	.00	28	11	8.6	.00	.80	.31	.28
6	.00	.27	.15	.50	.00	17	9.3	245	.00	.47	86	.59
7	.00	.10	.11	1.0	.00	13	7.5	52	.00	.34	113	.44
8	.00	.32	.07	.30	.00	10	6.5	13	.03	.23	74	.23
9	1.2	.19	.11	.10	.00	9.3	5.5	5.8	.11	.18	11	.16
10	.62	.23	.14	.00	2.0	8.2	5.0	3.6	.16	.30	4.8	.11
11	.37	.19	.10	.00	36	10	4.5	2.5	1.8	.91	2.4	.07
12	.13	.13	.12	.00	144	407	4.0	1.9	1.5	4.2	1.5	87
13	.13	.16	.08	.00	158	50	3.6	1.5	2.3	3.6	1.1	151
14	.08	.19	.08	.00	93	24	3.2	1.1	1.8	.82	.90	25
15	.10	.16	.10	.00	66	16	3.0	.88	2.1	.26	.66	6.6
16	.10	.10	.00	.00	50	11	2.9	.65	.91	.13	.54	.04
17	.13	.13	.00	.00	36	12	2.8	.48	.44	.06	.46	.00
18	.13	.10	.00	.00	27	16	2.5	.37	.23	.04	.41	.00
19	.23	.10	.00	.00	33	12	2.2	.27	.15	.02	.31	.00
20	.16	.10	.00	.00	34	9.5	2.0	.22	.11	.01	.27	.00
21	.19	.10	.00	.00	33	9.1	2.2	.18	.08	.03	.21	.00
22	.37	.09	.00	.00	33	17	2.2	.36	.32	4.1	.18	.00
23	6.2	.12	.00	.00	106	13	2.4	.33	.37	.96	.23	.00
24	75	.16	.00	.00	79	9.1	6.0	.15	144	.64	.31	.00
25	15	.19	.00	.00	21	6.9	4.3	.08	239	32	.19	.00
26	2.2	.34	.00	3.0	14	5.9	2.6	.05	36	30	.16	.00
27	.85	.17	.00	.00	12	37	2.1	.04	11	3.9	.15	.00
28	.48	.08	.00	.00	13	1100	1.8	.03	32	.91	1.8	.00
29	.32	.08	.00	.00	---	361	1.6	.01	53	.32	13	.00
30	1.3	.08	.00	.00	---	40	1.6	.00	9.3	.13	9.0	.00
31	1.2	---	.00	.00	---	23	---	.00	---	.80	2.8	---
TOTAL	106.49	7.13	1.51	4.90	990.00	2499.0	159.3	350.80	536.76	128.96	330.25	274.40
MEAN	3.44	.24	.049	.16	35.4	80.6	5.31	11.3	17.9	4.16	10.7	9.15
MAX	75	1.0	.15	3.0	158	1100	17	245	239	32	113	151
MIN	.00	.08	.00	.00	.00	5.9	1.6	.00	.00	.01	.15	.00
CFSM	.06	.004	.001	.003	.64	1.45	.10	.20	.32	.08	.19	.17
IN.	.07	.00	.00	.00	.66	1.67	.11	.24	.36	.09	.22	.18

CAL YR 1976 TOTAL 3968.07 MEAN 10.8 MAX 530 MIN .00 CFSM .20 IN 2.66
WTR YR 1977 TOTAL 5389.50 MEAN 14.8 MAX 1100 MIN .00 CFSM .27 IN 3.61

05594000 SHOAL CREEK NEAR BREESE, IL

LOCATION.--Lat 38°36'35", long 89°29'40", in SW¼SW¼ sec.13, T.2 N., R.4 W., Clinton County, Hydrologic Unit 07140203, on right bank at upstream side of bridge on U.S. Highway 50, 0.4 mi (0.6 km) upstream from Baltimore & Ohio Railroad, 1.7 mi (2.7 km) east of Breese, and 7 mi (11 km) upstream from Beaver Creek.

DRAINAGE AREA.--735 mi² (1,904 km²).

PERIOD OF RECORD.--November 1909 to December 1912, August to December 1914, October 1945 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 413.97 ft (126.178 m) above mean sea level. Prior to Dec. 8, 1914, chain gage at site 0.4 mi (0.6 km) downstream at different datum. Oct. 1, 1945, to Oct. 10, 1968, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter periods, which are fair. About 0.4 ft³/s (0.011 m³/s) diverted 20 ft (6 m) above station for municipal supply of Breese is not included in records. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--34 years (water years 1911-12, 1946-77), 506 ft³/s (14.33 m³/s), 9.35 in/yr (237 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,100 ft³/s (654 m³/s) Jan. 6, 1950, gage height, 22.63 ft (6.898 m), from graph based on gage readings; no flow for many days in 1954-56.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 19, 1943, reached a stage of 25.6 ft (7.80 m), present site and datum, discharge, 52,000 ft³/s (1,470 m³/s) on basis of contracted opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,540 ft³/s (242 m³/s) Apr. 1, gage height, 18.61 ft (5.672 m); minimum daily, 1.9 ft³/s (0.054 m³/s) Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	50	19	9.6	8.7	261	7850	44	71	533	33	68
2	2.3	59	19	7.6	8.1	257	4200	43	66	545	27	47
3	1.9	57	16	6.7	8.1	248	1200	43	56	622	26	37
4	3.0	43	14	6.0	9.9	387	632	47	49	410	32	31
5	4.9	31	13	6.0	11	716	487	53	45	171	26	31
6	9.9	26	12	6.6	11	525	358	53	42	117	22	28
7	12	22	15	6.9	9.3	283	255	513	38	91	21	20
8	22	18	13	7.0	7.0	193	194	1690	36	70	369	18
9	24	15	12	7.1	6.0	154	166	945	36	59	758	16
10	30	14	11	7.4	6.5	141	146	447	40	49	830	15
11	20	12	11	7.0	15	129	131	250	50	47	640	15
12	16	11	12	6.5	59	872	117	174	57	60	357	15
13	12	10	15	6.0	503	2130	106	137	36	59	114	299
14	8.3	9.0	13	5.5	1260	2340	99	113	31	59	65	814
15	6.5	9.0	12	5.0	1060	1010	91	96	80	42	50	562
16	6.5	8.0	11	5.0	625	543	87	83	78	32	41	461
17	6.5	8.0	10	5.0	427	369	81	72	65	29	34	351
18	5.9	9.0	10	6.5	319	271	77	60	75	25	30	290
19	3.6	13	12	6.0	220	236	72	53	41	22	28	194
20	4.8	12	15	5.4	195	220	71	48	24	21	25	115
21	4.9	11	12	4.5	198	188	69	45	20	27	22	70
22	5.8	10	18	4.5	199	166	68	42	18	53	20	57
23	7.0	9.0	15	4.0	228	161	66	48	27	164	92	42
24	14	9.0	12	4.0	525	199	65	62	79	45	1210	34
25	280	8.0	11	4.0	695	177	64	59	804	80	523	31
26	454	9.0	10	5.0	510	149	60	56	1140	261	268	27
27	159	13	10	6.0	429	157	56	53	954	283	109	25
28	75	13	10	8.1	315	1670	53	49	1330	212	68	27
29	48	13	11	8.1	---	2990	49	56	1140	91	54	27
30	39	15	13	9.3	---	3950	45	132	717	58	100	25
31	35	---	12	9.3	---	6790	---	93	---	41	156	---
TOTAL	1325.8	546.0	399	195.6	7867.6	27882	17015	5659	7245	4378	6150	3792
MEAN	42.8	18.2	12.9	6.31	281	899	567	183	242	141	198	126
MAX	454	59	19	9.6	1260	6790	7850	1690	1330	622	1210	814
MIN	1.9	8.0	10	4.0	6.0	129	45	42	18	21	20	15
CFSM	.06	.03	.02	.009	.38	1.22	.77	.25	.33	.19	.27	.17
IN.	.07	.03	.02	.01	.40	1.41	.86	.29	.37	.22	.31	.19

CAL YR 1976 TOTAL 48237.8 MEAN 132 MAX 2920 MIN 1.5 CFSM .18 IN 2.44
WTR YR 1977 TOTAL 82455.0 MEAN 226 MAX 7850 MIN 1.9 CFSM .31 IN 4.17

05594090 SUGAR CREEK AT ALBERS, IL

LOCATION.--Lat 38°32'29", long 89°37'36", in SW¼SW¼ sec.11, T.1 N., R.5 W., Clinton County, Hydrologic Unit 07140204, on right bank at downstream side of bridge on State Highway 161, 0.4 mi (0.6 km) above Lake Branch, 0.5 mi (0.8 km) above Southern Railroad bridge, and 0.7 mi (1.1 km) west of Albers.

DRAINAGE AREA.--124 mi^2 (321 km^2).

PERIOD OF RECORD.--October 1972 to current year. Gage-height record for May 1964 to September 1972 available in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 398.00 ft (121.310 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

COOPERATION.--Eleven discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--5 years, 115 ft^3/s (3.257 m^3/s), 12.59 in/yr (320 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,500 ft^3/s (297 m^3/s) Nov. 2, 1972, gage height, 22.70 ft (6.919 m); minimum daily, 0.10 ft^3/s (0.003 m^3/s) July 22, 23, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,740 ft^3/s (106 m^3/s) Mar. 29, gage height, 20.83 ft (6.349 m); minimum daily, 0.40 ft^3/s (0.011 m^3/s) Jan. 27 to Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SF
1	1.3	8.5	1.5	.50	.40	31	31	3.1	3.7	3.7	2.5	11
2	.93	4.7	1.3	.50	.40	22	28	5.2	1.9	2.6	2.0	7.1
3	.75	3.2	1.2	.50	.40	20	36	4.8	1.1	2.1	1.5	5.0
4	.60	2.3	1.3	.50	.40	46	21	3.9	.79	1.8	1.2	8.6
5	.72	1.5	1.3	.50	.40	42	16	4.3	.72	1.6	.90	45
6	6.7	1.1	1.6	.50	.40	19	15	4.7	.66	1.5	.60	8.6
7	23	.95	2.0	.50	.40	11	12	15	.60	1.5	.50	3.9
8	5.8	1.1	2.2	.50	.40	8.7	10	39	.60	1.5	.50	3.7
9	2.7	.82	2.7	.50	.40	7.8	8.6	16	.54	1.6	305	3.7
10	1.8	.76	2.8	.50	.40	6.9	7.5	7.5	.43	2.4	876	3.0
11	.94	.82	2.2	.50	10	8.7	6.9	4.7	.43	7.9	442	2.9
12	.60	.76	1.8	.50	278	958	6.1	3.4	.48	13	40	2.9
13	.56	.71	1.6	.50	621	832	5.7	2.7	.79	29	14	4.3
14	.51	.71	1.4	.50	204	66	5.7	2.1	1.7	8.6	6.7	22
15	.51	.76	1.2	.50	77	26	5.2	2.3	3.1	3.7	3.7	14
16	.46	1.0	1.0	.50	41	18	4.8	2.3	2.9	2.5	2.6	7.5
17	.51	1.1	1.0	.50	25	14	4.3	2.1	1.5	1.9	2.5	5.9
18	.60	1.1	1.0	.50	15	13	4.2	2.0	1.1	1.6	2.6	4.3
19	.82	1.2	1.0	.50	12	14	3.9	1.7	.79	1.5	2.0	3.6
20	1.1	1.2	1.0	.50	10	10	4.2	1.6	.60	1.5	1.5	2.9
21	1.4	1.2	1.0	.50	9.0	8.7	5.0	1.5	.48	1.3	1.2	5.5
22	1.3	1.4	.90	.50	11	7.9	6.1	1.3	1.2	2.3	1.0	5.5
23	2.3	1.4	.80	.50	28	7.9	6.1	1.4	8.6	1.5	201	3.3
24	5.4	1.3	.70	.50	110	7.8	5.5	1.5	57	2.6	890	2.6
25	16	1.3	.60	.50	41	7.1	4.2	1.3	289	13	1060	2.5
26	11	1.6	.50	.50	78	6.4	3.6	1.3	56	44	394	2.6
27	5.4	1.8	.50	.40	230	15	3.3	1.3	27	12	24	3.4
28	2.4	1.9	.50	.40	57	2170	3.0	1.4	9.7	4.6	11	2.7
29	1.3	1.7	.50	.40	---	2900	3.0	13	8.3	2.4	11	2.3
30	2.1	1.5	.50	.40	---	711	3.0	7.1	6.5	1.7	47	2.1
31	3.8	---	.50	.40	---	54	---	9.0	---	2.0	22	---
TOTAL	103.31	49.39	38.10	15.00	1861.00	8069.9	278.9	168.5	488.21	178.9	4370.50	202.4
MEAN	3.33	1.65	1.23	.48	66.5	260	9.30	5.44	16.3	5.77	141	6.75
MAX	23	8.5	2.8	.50	621	2900	36	39	289	44	1060	45
MIN	.46	.71	.50	.40	.40	6.4	3.0	1.3	.43	1.3	.50	2.1
CFSM	.03	.01	.01	.004	.54	2.10	.08	.04	.13	.05	1.14	.05
IN.	.03	.01	.01	.00	.56	2.42	.08	.05	.15	.05	1.31	.06

CAL YR 1976 TOTAL 5838.96 MEAN 16.0 MAX 679 MIN .10 CFSM .13 IN 1.75
WTR YR 1977 TOTAL 15824.11 MEAN 43.4 MAX 2900 MIN .40 CFSM .35 IN 4.75

05594100 KASKASKIA RIVER NEAR VENEDY STATION, IL
(National stream-quality accounting network station)

LOCATION.--Lat 38°27'02", long 89°37'39", in NW¼ sec.14, T.1 S., R.5 W., Washington County, Hydrologic Unit 07140204, on downstream side of bridge on State Highways 160 and 177, 1 mi (2 km) northwest of Venedy Station, 2.5 mi (4.0 km) downstream from Sugar Creek, 4 mi (6 km) west of Okawville, and at mile 70.5 (113.4 km).

DRAINAGE AREA.--4,393 mi² (11,378 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1969 to current year. Gage-height record for Mar. 7, 1968, to Sept. 30, 1969, available in files of Corps of Engineers.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 380.10 ft (115.854 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Water-discharge records good except those for winter periods, which are poor. Flow partially regulated by Carlyle Reservoir (station 05592990) 35 mi (56 km) above gage.

COOPERATION.--Five discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--8 years, 3,420 ft³/s (96.85 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,400 ft³/s (776 m³/s) Feb. 27, 1975, gage height, 22.42 ft (6.834 m); minimum, 54 ft³/s (1.53 m³/s) Sept. 12, 13, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,600 ft³/s (612 m³/s) Apr. 1, gage height, 22.07 ft (6.727 m); minimum daily, 70 ft³/s (1.98 m³/s) Oct. 4, Jan. 16 to Feb. 11, Feb. 17-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	199	84	85	70	1360	21300	777	1140	2620	1390	1580
2	73	197	85	85	70	1110	19800	542	885	2440	1030	1430
3	72	188	88	85	70	1090	17300	322	550	2670	818	1170
4	70	171	89	80	70	1480	15000	275	280	2460	524	904
5	71	149	86	80	70	2740	13000	251	181	1930	351	767
6	99	131	89	80	70	3340	10600	253	158	1450	214	790
7	139	116	92	80	70	2840	9230	883	144	1080	155	757
8	172	106	92	80	70	2160	8180	3010	135	800	140	353
9	144	99	94	75	70	1510	6960	3440	132	481	899	191
10	132	93	95	75	70	1280	5380	1950	133	290	2700	155
11	120	88	93	75	70	983	3660	1510	124	288	3160	141
12	104	86	94	75	75	2110	3230	1390	120	686	2490	134
13	92	84	88	75	200	6420	2930	1280	130	1060	1870	132
14	84	83	92	75	1900	7280	2660	1210	180	900	1410	977
15	78	82	92	75	2400	8250	2340	1060	169	670	1170	2130
16	74	81	92	70	1500	7760	2000	956	389	384	930	2000
17	72	81	91	70	500	6650	1700	777	458	264	831	1430
18	71	82	90	70	300	5260	1420	552	363	203	792	909
19	71	82	91	70	220	4300	1140	495	330	177	767	763
20	73	81	91	70	180	3440	953	460	321	170	747	783
21	73	81	90	70	157	2480	915	386	313	154	731	870
22	71	80	88	70	332	1740	880	356	316	166	651	926
23	79	79	92	70	338	1700	829	346	308	201	646	954
24	109	81	90	70	677	1920	915	346	330	319	2450	951
25	113	81	88	70	1520	2070	900	335	1000	236	3510	943
26	345	83	88	70	1420	2070	897	401	2510	396	2920	959
27	499	86	87	70	1820	2110	978	512	2980	581	1890	958
28	301	85	86	70	1870	5950	1030	548	3020	1610	1490	994
29	192	83	85	70	---	11700	956	784	3360	2010	1320	1050
30	172	82	85	70	---	16500	975	1000	2840	1990	1550	1040
31	218	---	85	70	---	19400	---	1250	---	1800	1750	---
TOTAL	4057	3100	2772	2300	16179	139003	158058	27657	23299	30486	41296	27141
MEAN	131	103	89.4	74.2	578	4484	5269	892	777	983	1332	905
MAX	499	199	95	85	2400	19400	21300	3440	3360	2670	3510	2130
MIN	70	79	84	70	70	983	829	251	120	154	140	132

CAL YR 1976 TOTAL 394753 MEAN 1079 MAX 7320 MIN 70
WTR YR 1977 TOTAL 475348 MEAN 1302 MAX 21300 MIN 70

05594100 KASKASKIA RIVER NEAR VENEDY STATION, IL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1975 to current year.
WATER TEMPERATURES: July 1975 to current year.

REMARKS.--Daily records deleted Nov. 1 to Mar. 3 due to improper sampling. Other interruptions in record due to missed samples.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 699 micromhos June 7, 1976; minimum daily recorded, 120 micromhos Mar. 30, 1977.
WATER TEMPERATURES: Maximum daily, 31.5°C July 11, 24, 1976, July 18, 1977; minimum daily, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Minimum daily recorded, 120 micromhos Mar. 30.
WATER TEMPERATURES: Maximum daily recorded, 31.5°C July 18.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM, 0.7UM-MF (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT												
19...	1115	70	520	7.2	8.0	10.5	10	11.0	74	52	220	48
NOV												
17...	1400	60	540	7.4	18.0	5.0	7	11.0	B19	38	210	46
DEC												
14...	1000	91	630	7.7	6.0	.0	15	14.4	23	34	240	51
FEB												
14...	1100	2040	435	7.6	--	.5	20	10.6	2500	B3700	140	32
MAR												
21...	1100	2230	490	7.8	16.5	10.0	45	10.2	B56	330	190	59
APR												
06...	1130	15200	360	7.5	10.5	13.5	50	7.0	88	860	140	43
11...	1130	3540	375	7.6	--	15.5	70	10.6	B52	340	140	46
MAY												
03...	1130	328	675	7.9	18.0	17.5	15	9.6	52	110	200	53
JUN												
02...	1000	650	480	8.0	28.0	23.5	7	7.4	89	350	190	60
JUL												
12...	1200	741	390	7.7	35.0	25.5	25	7.7	2300	3000	120	41
AUG												
17...	1045	823	650	8.2	23.0	26.0	5	7.3	380	180	170	51
SEP												
13...	1100	131	510	7.5	24.0	22.0	20	8.4	87	220	200	33

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT												
19...	49	24	27	21	.8	3.4	210	0	170	21	53	40
NOV												
17...	46	23	26	21	.8	4.3	200	0	170	13	57	39
DEC												
14...	53	26	36	24	1.0	4.4	230	0	190	7.3	61	46
FEB												
14...	34	13	32	32	1.2	8.8	130	0	110	5.2	52	40
MAR												
21...	42	20	27	23	.9	3.9	160	0	130	4.1	58	40
APR												
06...	32	15	21	24	.8	3.9	120	0	98	6.1	49	36
11...	33	15	19	22	.7	4.0	120	0	94	4.8	44	29
MAY												
03...	46	22	42	31	1.3	4.6	180	0	150	3.6	79	60
JUN												
02...	42	21	27	23	.9	4.0	160	0	130	2.6	50	40
JUL												
12...	31	11	24	20	.9	5.4	100	0	82	3.2	34	32
AUG												
17...	40	18	25	23	.8	4.4	150	0	120	1.5	36	41
SEP												
13...	46	20	24	21	.7	4.2	200	0	160	10	52	33

B Results based on colony count outside the acceptable range (non-ideal colony count).

05594100 KASKASKIA RIVER NEAR VENEDY STATION, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT											
19...	.3	5.1	313	305	.43	59.2	.03	.53	.56	2.5	.16
NOV											
17...	.2	4.9	304	300	.41	65.7	.22	.58	.80	3.5	.16
DEC											
14...	.3	5.3	379	345	.52	93.1	.18	.80	.98	4.3	.27
FEB											
14...	.2	5.8	272	251	.37	1500	1.2	4.3	5.5	24	.89
MAR											
21...	.2	1.8	289	272	.39	1740	.56	1.2	1.8	7.8	.22
APR											
04...	.2	3.1	239	219	.33	9810	.36	.90	1.3	5.6	.15
11...	.2	3.7	235	207	.32	2250	.61	1.2	1.8	8.0	.16
MAY											
03...	.2	3.1	367	344	.50	325	.22	1.2	1.4	6.3	.21
JUN											
02...	.2	2.3	272	265	.37	624	.19	1.4	1.6	7.0	.21
JUL											
12...	.2	5.1	227	192	.31	454	.74	1.7	2.4	11	.29
AUG											
17...	.2	2.4	290	241	.39	644	.30	1.2	1.5	6.6	.30
SEP											
13...	.2	6.9	296	285	.40	105	.03	.71	.74	3.3	.17

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
NOV												
17...	2	2	0	1	1	0	<10	0	<10	0	0	0
FEB												
14...	5	2	3	1	0	1	<10	0	<10	4	2	2
MAY												
03...	2	1	1	0	0	0	<10	<7	3	0	0	0
AUG												
17...	3	1	2	15	15	0	10	10	0	0	0	0

DATE	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
NOV											
17...	20	20	0	2400	60	34	34	0	670	70	600
FEB											
14...	30	20	10	4900	270	33	26	7	680	210	470
MAY											
03...	15	10	5	2500	30	16	14	2	580	140	440
AUG											
17...	5	5	0	3400	60	180	180	0	260	250	10

DATE	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV										
17...	<.5	.0	<.5	0	0	0	20	10	10	8.6
FEB										
14...	<.5	.0	<.5	0	0	0	90	60	30	17
MAY										
03...	.0	.0	.0	0	0	0	20	20	0	8.2
AUG										
17...	.0	.0	.0	0	0	0	20	10	10	10

05594100 KASKASKIA RIVER NEAR VENEDY STATION, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT				
19...	17000	94	18	93
NOV				
17...	6700	2390	516	44
DEC				
14...	12000	145	36	45
FEB				
14...	2000	24	132	95
MAR				
21...	--	185	1110	94
APR				
04...	--	190	7800	88
11...	--	225	2150	94
MAY				
03...	75000	140	124	98
JUN				
02...	33000	154	353	98
JUL				
12...	27000	316	632	98
AUG				
17...	18000	142	316	98
SEP				
13...	51000	71	25	99

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	490					---	255	---	---	420	460	410
2	492					---	290	570	465	430	465	420
3	505					---	325	565	500	420	460	440
4	502					455	340	650	500	---	465	435
5	---					470	370	665	520	430	465	425
6	510					505	370	580	530	430	---	380
7	472					490	365	405	530	445	465	430
8	515					490	360	440	535	445	470	445
9	435					500	345	400	545	450	375	450
10	490					505	---	---	540	450	215	465
11	490					511	335	380	---	470	270	475
12	570					200	330	420	550	390	---	480
13	555					235	325	415	540	235	380	490
14	510					350	330	425	500	370	370	500
15	500					360	325	430	500	290	330	370
16	500					410	340	430	505	290	410	390
17	380					430	350	435	535	360	450	400
18	515					450	350	465	505	410	440	---
19	520					465	360	460	---	440	440	430
20	520					480	380	470	500	440	440	430
21	520					490	390	470	490	460	440	440
22	515					505	380	---	465	---	440	440
23	475					495	400	475	475	460	430	450
24	475					450	415	470	470	460	220	440
25	382					450	440	480	325	430	220	440
26	530					440	400	490	330	270	---	450
27	430					---	440	460	330	370	360	450
28	430					230	430	460	340	430	370	460
29	435					160	430	435	310	440	380	460
30	435					120	460	430	315	440	380	460
31	432					180	---	455	---	485	420	---
MEAN	484					401	367	473	469	409	394	440

WTR YR 1977 MEAN 430 MAX 665 MIN 120

05594100 KASKASKIA RIVER NEAR VENEDY STATION, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0					---	13.0	---	---	25.0	25.0	28.0
2	21.5					---	14.0	18.5	24.5	25.5	26.0	25.0
3	21.0					---	14.0	17.5	25.0	25.5	28.5	26.5
4	21.0					5.0	14.0	17.0	25.0	---	27.5	27.0
5	---					6.0	12.5	19.0	26.0	28.0	26.0	26.5
6	17.5					6.0	10.5	21.0	25.0	27.0	---	25.0
7	15.5					6.5	10.0	21.0	24.5	30.0	28.5	25.0
8	15.0					7.0	11.5	20.0	22.5	29.0	27.0	25.0
9	14.0					8.0	12.0	19.0	19.0	29.0	25.5	24.5
10	14.5					8.0	---	19.0	20.0	28.0	26.0	25.0
11	15.0					9.0	14.0	19.0	---	27.0	25.0	23.5
12	17.0					11.5	14.0	20.0	25.0	25.5	---	21.5
13	17.0					11.0	14.5	21.0	25.0	29.0	25.0	21.5
14	16.5					10.0	15.0	21.5	24.0	29.0	25.5	20.0
15	15.0					11.0	15.5	22.0	22.0	29.0	26.0	22.0
16	14.5					11.0	18.0	23.0	27.5	28.0	26.0	20.0
17	14.0					11.0	20.0	23.0	27.5	31.0	27.0	23.5
18	12.0					10.5	19.0	23.0	28.0	31.5	25.0	---
19	11.5					10.0	19.0	22.0	---	31.0	23.5	22.5
20	10.0					10.5	18.0	22.5	25.0	31.0	25.0	20.5
21	10.0					9.5	17.5	24.5	25.0	29.0	25.0	21.5
22	9.5					10.0	17.5	---	24.0	---	26.5	23.0
23	10.0					10.5	15.5	23.0	24.0	27.0	25.0	23.0
24	11.0					11.0	16.0	25.5	25.0	29.0	22.5	23.0
25	10.0					11.0	15.0	25.0	25.0	27.0	23.0	23.0
26	10.5					11.5	15.0	25.5	25.0	26.0	---	21.0
27	10.0					---	15.5	25.0	23.5	26.0	25.0	23.5
28	9.5					14.0	17.5	25.0	24.0	27.0	25.5	23.5
29	9.5					14.0	16.0	25.5	24.5	27.5	25.0	20.5
30	9.0					15.0	17.0	25.0	24.5	28.0	25.0	20.0
31	8.0					14.5	---	24.0	---	27.5	26.5	---
MEAN	13.5					10.0	15.0	22.0	24.5	28.0	25.5	23.5

WTR YR 1977 MEAN 20.5 MAX 31.5 MIN 5.0

05594100 KASKASKIA RIVER NEAR VENEDY STATION, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	OCT 19,76	NOV 17,76	DEC 14,76	FEB 14,77	MAY 3,77
TIME	1115	1400	1000	1100	1130
TOTAL CELLS/ML	17000	6700	12000	2000	75000
DIVERSITY: DIVISION	1.8	1.4	1.5	1.1	1.3
.CLASS	1.9	1.4	1.5	1.1	1.4
..ORDER	2.6	2.1	1.7	1.1	1.5
...FAMILY	2.9	2.6	2.2	1.7	2.1
....GENUS	3.5	3.4	3.0	1.7	2.8

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	740	1
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE										
....ACANTHOSPHAERA	--	-	--	-	98	1	--	-	--	-
....GOLENKINIA	--	-	--	-	130	1	--	-	--	-
....MICRACTINIUM	*	0	34	1	--	-	--	-	7000	9
...OOCYSTACEAE										
....ANKISTRODESMUS	560	3	340	5	630	5	--	-	1100	1
....CHODATELLA	--	-	67	1	450	4	--	-	--	-
....DICTYOSPHAERIUM	450	3	540	8	3400#	28	--	-	8900	12
....FRANCEIA	--	-	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	1200	7	67	1	--	-	30	2	--	-
....OOCYSTIS	--	-	130	2	130	1	--	-	--	-
....SELENASTRUM	*	0	--	-	--	-	--	-	--	-
....TETRAEDRON	*	0	--	-	--	-	--	-	*	0
....TREUBARIA	--	-	67	1	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	450	3	270	4	1000	8	--	-	--	-
....CRUCIGENIA	220	1	400	6	--	-	--	-	--	-
....SCENEDESMUS	900	5	130	2	360	3	--	-	6300	8
....TETRASTRUM	450	3	800	12	360	3	--	-	--	-
..TETRASPORALES										
...PALMELLACEAE										
....GLOEOCYSTIS	--	-	67	1	90	1	--	-	--	-
..ULOTRICHALES										
...ULOTRICHACEAE										
....HORMIDIUM	--	-	670	10	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CARTERIA	1700	10	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	--	-	*	0	130	1	--	-	740	1
...PHACOTACEAE										
....PHACOTUS	--	-	--	-	--	-	--	-	--	-
....PTEROMONAS	--	-	--	-	--	-	--	-	*	0
..ZYGNEMATALES										
...DESMIDIACEAE										
....CLOSTERIUM	--	-	--	-	--	-	--	-	--	-
....COSMARIUM	--	-	--	-	--	-	--	-	--	-
....STAURASTRUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

05594100 KASKASKIA RIVER NEAR VENEDY STATION, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	OCT 19,76		NOV 17,76		DEC 14,76		FEB 14,77		MAY 3,77	
TIME	1115		1400		1000		1100		1130	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	730	4	--	-	3500#	29	--	-	20000#	27
....MELOSIRA	3800#	22	--	-	90	1	--	-	21000#	29
....STEPHANODISCUS	--	-	1800#	27	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	--	-	15	1	--	-
...FRAGILARIACEAE										
....SYNEDRA	--	-	--	-	--	-	--	-	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	*	0	--	-	--	-
...NAVICULACEAE										
....NAVICULA	110	1	*	0	--	-	75	4	--	-
...NITZSCHIACEAE										
....NITZSCHIA	510	3	67	1	180	1	480#	24	740	1
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	--	-	350#	17	*	0
.XANTHOPHYCEAE										
..HETEROCOCCALES										
...CHLOROTHECIACEAE										
....OPHIOCYTIUM	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCAEAE										
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	1700	10	--	-	--	-	--	-	5200	7
..HORMOGONALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	3300#	19	670	10	1500	12	--	-	--	-
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	1100#	53	--	-
..CHROCCOCCALES										
...CHROCCOCCAEAE										
....GOMPHOSPHAERIA	--	-	540	8	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOMONODACEAE										
....CRYPTOMONAS	670	4	--	-	90	1	--	-	740	1
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	280	2	--	-	--	-	--	-	--	-
....PHACUS	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	*	0	*	0	*	0	--	-	*	0
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

05594100 KASKASKIA RIVER NEAR VENEDY STATION, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	JUN 2.77	JUL 12.77	AUG 17.77	SEP 13.77
TIME	1000	1200	1045	1100
TOTAL CELLS/ML	33000	27000	18000	51000
DIVERSITY: DIVISION	1.6	0.7	1.2	0.9
.CLASS	1.6	0.7	1.2	0.9
..ORDER	2.1	1.6	1.6	1.7
...FAMILY	2.4	1.7	1.8	1.9
....GENUS	2.8	1.9	2.2	2.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	*	0	--	-
...COELASTRACEAE								
....COELASTRUM	1100	3	--	-	710	4	--	-
...HYDRODICTYACEAE								
....PEDIASTRUM	--	-	*	0	--	-	--	-
...MICRACTINIACEAE								
....ACANTHOSPHAERA	--	-	--	-	--	-	--	-
....GOLENKINIA	--	-	--	-	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-	*	0
...OOCYSTACEAE								
....ANKISTRODESMUS	480	1	*	0	*	0	*	0
....CHODATELLA	*	0	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	260	1	--	-	3500	7
....FRANCEIA	*	0	--	-	--	-	--	-
....KIRCHNERIELLA	*	0	--	-	--	-	*	0
....OOCYSTIS	350	1	--	-	--	-	700	1
....SELENASTRUM	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	*	0
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	710	4	1000	2
....CRUCIGENIA	280	1	--	-	710	4	*	0
....SCENEDESMUS	3300	10	440	2	790	5	2000	4
....TETRASTRUM	550	2	--	-	180	1	510	1
..TETRASPORALES								
...PALMELLACEAE								
....GLOEOCYSTIS	--	-	--	-	--	-	--	-
..ULOTRICHALES								
...ULOTRICHACEAE								
....HORMIDIUM	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CARTERIA	--	-	--	-	--	-	2400	5
....CHLAMYDOMONAS	--	-	*	0	--	-	--	-
...PHACOTACEAE								
....PHACOTUS	*	0	--	-	--	-	--	-
....PTEROMONAS	--	-	--	-	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....CLOSTERIUM	--	-	--	-	*	0	--	-
....COSMARIUM	*	0	--	-	--	-	--	-
....STAURASTRUM	--	-	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

05594100 KASKASKIA RIVER NEAR VENEDY STATION, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	JUN 2,77 1000		JUL 12,77 1200		AUG 17,77 1045		SEP 13,77 1100	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	2200	7	570	2	--	-	440	1
....MELOSIRA	7600#	23	980	4	350	2	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....SYNEDRA	--	-	--	-	1500	9	*	0
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	*	0	*	0	310	2	*	0
...NITZSCHIACEAE								
....NITZSCHIA	480	1	570	2	--	-	--	-
...SURIRELLACEAE								
....SURIRELLA	--	-	--	-	--	-	--	-
.XANTHOPHYCEAE								
..HETEROCOCCALES								
...CHLOROTHECIACEAE								
....OPHIOCYTIUM	--	-	*	0	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....AGMENELLUM	--	-	11000#	39	11000#	61	24000#	46
....ANACYSTIS	5000	15	660	2	--	-	7100	14
..HORMOGONALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	11000#	33	12000#	46	710	4	8200#	16
...RIVULARIACEAE								
....RAPHIDIOPSIS	--	-	*	0	--	-	--	-
..CHROCCOCCALES								
...CHROCCOCCAEAE								
....GOMPHOSPHAERIH	--	-	--	-	530	3	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOMONODACEAE								
....CRYPTOMONAS	210	1	--	-	88	1	--	-
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	*	0	--	-	*	0
....PHACUS	--	-	*	0	--	-	--	-
....TRACHELOMONAS	*	0	*	0	--	-	*	0
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	*	0	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON
(Sampling method - Polyethylene strip)

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio
DEC 14	26	1615	1385	0.112	0.079	2054
JUN 02	31	27600	25100	.477	.020	5241
SEP 13	28	1420	1100	.037	.002	8649

05594330 MUD CREEK NEAR MARISSA, IL

LOCATION.--Lat 38°15'46", long 89°43'56", in NE¼NW¼ sec.23, T.3 S., R.6 W., St. Clair County, Hydrologic Unit 07140204, on left bank at upstream side of bridge on State Highway 4, 2 mi (3 km) northeast of Marissa and 5 mi (8 km) south of Darmstadt.

DRAINAGE AREA.--72.4 mi^2 (187.5 km^2).

PERIOD OF RECORD.--October 1970 to current year.

REVISED RECORDS.--WDR IL-73: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 402 ft (123 m), approximately, from topographic map.

REMARKS.--Records fair except those for winter periods and those for period of no gage-height record, July 3 to Aug. 3, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--7 years, 48.9 ft^3/s (1.385 m^3/s), 9.17 in/yr (233 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,900 ft^3/s (139 m^3/s) Mar. 28, 1977, gage height, 16.82 ft (5.127 m); no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28 m^3/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft^3/s)	(m^3/s)	(ft)	(m)			(ft^3/s)	(m^3/s)	(ft)	(m)
Mar. 13	0430	1110	31.4	13.39	4.081	June 26	2130	1440	40.8	14.13	4.307
Mar. 28	1815	*4900	139	*16.82	5.127	Aug. 12	1430	1030	29.2	13.13	4.002

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	6.6	.00	.00	.00	21	23	1.2	.28	4.9	1.5	4.2
2	.00	1.2	.00	.00	.00	17	32	.74	.28	2.3	1.3	2.5
3	.00	.00	.00	.00	.00	22	154	.79	.24	4.0	1.2	7.6
4	.00	.00	.00	.00	.00	232	41	.79	.16	3.0	1.1	318
5	.00	.00	.00	.00	.00	71	27	.70	.32	2.0	.98	46
6	2.0	.00	.00	.00	.00	21	18	3.0	.20	1.0	1.2	13
7	12	.00	.27	.00	.00	12	12	3.0	.04	.70	2.7	9.1
8	4.5	.00	.46	.00	.00	7.6	9.2	1.1	.00	.50	2.7	5.0
9	1.5	.00	.49	.00	.00	5.2	7.0	.93	.00	.30	123	3.3
10	.78	.00	.31	.00	30	3.9	5.4	.66	.00	15	72	3.1
11	.49	.00	.33	.00	169	8.8	4.1	.46	.00	150	31	2.8
12	.60	.00	.32	.00	204	932	3.6	.37	.00	30	850	1.4
13	.46	.00	.28	.00	137	771	3.1	.31	1.3	7.0	353	1.0
14	.42	.00	.23	.00	58	68	2.7	.29	.65	3.5	219	.93
15	.27	.00	.28	.00	27	25	2.7	.29	.72	2.0	23	.83
16	.18	.00	.15	.00	19	17	2.6	.22	5.4	1.5	8.4	.71
17	.13	.00	.10	.00	11	11	2.2	.14	3.8	1.0	6.3	.80
18	.08	.00	.10	.00	7.2	84	1.9	.12	.94	.70	3.6	.63
19	.10	.00	.10	.00	5.4	41	1.9	.15	.65	.50	2.5	.68
20	.15	.00	.10	.00	3.7	19	1.7	.08	.59	.30	2.3	6.2
21	.12	.00	.05	.00	3.2	13	2.5	.12	.46	.50	1.6	8.8
22	.10	.00	.00	.00	2.5	10	3.5	.11	3.1	15	1.9	3.9
23	.42	.00	.00	.00	12	8.3	2.9	100	2.2	4.0	2.2	1.9
24	1.6	.00	.00	.00	147	6.3	2.9	39	127	2.0	3.0	4.3
25	6.3	.00	.00	.00	35	5.0	2.7	1.6	124	1.0	4.1	10
26	5.7	.00	.00	.00	45	4.3	2.7	.72	675	10	3.4	7.5
27	2.4	.00	.00	.00	270	158	2.6	.40	578	3.0	2.9	6.1
28	1.3	.00	.00	.00	58	2940	2.4	.36	48	2.5	3.4	3.6
29	.85	.00	.00	.00	---	1620	2.0	.32	21	2.2	207	3.0
30	1.6	.00	.00	.00	---	157	2.0	.24	7.2	2.0	23	2.0
31	11	---	.00	.00	---	44	---	.32	---	1.7	10	---
TOTAL	55.05	7.80	3.57	.00	1244.00	7355.4	381.3	158.53	1601.53	274.10	1969.28	478.88
MEAN	1.78	.26	.12	.000	44.4	237	12.7	5.11	53.4	8.84	63.5	16.0
MAX	12	6.6	.49	.00	270	2940	154	100	675	150	850	318
MIN	.00	.00	.00	.00	.00	3.9	1.7	.08	.00	.30	.98	.63
CFSM	.03	.004	.002	.000	.61	3.27	.18	.07	.74	.12	.88	.22
IN.	.03	.00	.00	.00	.64	3.78	.20	.08	.82	.14	1.01	.25

CAL YR 1976 TOTAL 3608.60 MEAN 9.86 MAX 367 MIN .00 CFSM .14 IN 1.85
WTR YR 1977 TOTAL 13529.44 MEAN 37.1 MAX 2940 MIN .00 CFSM .51 IN 6.95

05594450 SILVER CREEK NEAR TROY, IL

LOCATION.--Lat 38°43'00", long 89°49'45", in SE¼SW¼ sec.12, T.3 N., R.7 W., Madison County, Hydrologic Unit 07140204, on right bank at upstream side of bridge on U.S. Highway 40, 0.2 mi (0.3 km) upstream from Penn Central bridge, 1.9 mi (3.1 km) upstream from East Fork Silver Creek, and 1.9 mi (3.1 km) southeast of Troy.

DRAINAGE AREA.--154 mi^2 (399 km^2).

PERIOD OF RECORD.--October 1966 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 430 ft (131 m), from topographic map.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--11 years, 108 ft^3/s (3.059 m^3/s), 9.52 in/yr (242 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,270 ft^3/s (263 m^3/s) Apr. 25, 1975, gage height, 17.09 ft (5.209 m); no flow for several days each year 1966-69, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,740 ft^3/s (134 m^3/s) Mar. 29, gage height, 15.38 ft (4.688 m); minimum daily, 0.02 ft^3/s (0.001 m^3/s) June 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	35	.30	.10	.20	45	212	7.6	5.2	16	2.7	28
2	.15	31	.32	.10	.20	48	79	7.9	3.1	19	2.3	21
3	.17	15	.33	.10	.20	44	40	7.5	2.0	19	2.2	17
4	.21	6.5	.33	.19	.20	80	30	6.9	1.4	11	1.9	16
5	1.6	3.3	.43	.28	.20	128	26	7.3	.76	7.8	1.8	13
6	42	2.2	.88	.50	.20	49	21	9.4	.47	6.2	1.7	10
7	8.7	1.7	1.5	.50	.20	22	17	11	.28	5.1	1.7	8.0
8	5.9	1.2	1.0	.50	.30	16	16	16	.25	4.4	41	6.5
9	2.4	1.0	.77	.40	1.0	13	17	13	.26	3.9	214	5.5
10	.85	.88	.70	.40	2.3	12	16	7.4	.23	3.4	291	4.5
11	.66	.73	.60	.30	15	27	14	4.9	.22	6.1	104	4.0
12	.48	.65	.60	.30	189	642	13	3.8	.20	12	37	10
13	.46	.64	.50	.30	407	655	12	3.0	.48	6.1	12	103
14	.42	.64	.50	.30	404	893	12	2.5	.50	4.1	6.9	256
15	.45	.64	.50	.30	315	424	11	2.2	.17	3.1	4.7	79
16	.23	.64	.40	.30	100	107	11	1.9	.13	2.7	3.4	48
17	.32	.64	.40	.30	50	57	9.7	1.7	.11	2.4	2.6	34
18	.46	.59	.40	.30	35	48	8.7	1.6	.09	2.1	2.0	26
19	.52	.55	.40	.30	30	45	9.8	1.7	.05	2.2	1.6	37
20	.66	.55	.30	.30	25	36	11	1.5	.04	1.9	1.3	47
21	.65	.54	.30	.30	22	30	11	1.2	.02	4.3	1.0	31
22	.63	.48	.30	.20	20	29	13	1.2	2.5	9.3	.80	22
23	1.1	.44	.20	.20	39	26	13	.88	1.8	9.6	110	17
24	50	.44	.20	.20	128	23	13	.77	2.6	10	505	14
25	138	.44	.20	.20	105	19	13	.69	63	7.9	634	14
26	54	.47	.10	.30	37	16	11	.59	52	19	157	13
27	16	.49	.10	.40	35	44	10	.52	31	37	51	12
28	6.1	.48	.20	.50	36	1090	9.7	.50	48	13	44	10
29	2.9	.37	.20	.50	---	3450	9.0	12	72	7.6	138	8.0
30	17	.31	.10	.50	---	2140	7.6	11	25	5.2	129	7.0
31	21	---	.10	.30	---	918	---	15	---	3.9	51	---
TOTAL	374.16	108.51	13.16	9.67	1997.00	11176	695.7	163.15	313.86	265.3	2556.60	921.5
MEAN	12.1	3.62	.42	.31	71.3	361	23.2	5.26	10.5	8.56	82.5	30.7
MAX	138	35	1.5	.50	407	3450	212	16	72	37	634	256
MIN	.14	.31	.10	.10	.20	12	7.6	.50	.02	1.9	.80	4.0
CFSM	.08	.02	.003	.002	.46	2.34	.15	.03	.07	.06	.54	.20
IN.	.09	.03	.00	.00	.48	2.70	.17	.04	.08	.06	.62	.22

CAL YR 1976 TOTAL 9643.60 MEAN 26.3 MAX 764 MIN .10 CFSM .17 IN 2.33
WTR YR 1977 TOTAL 18594.61 MEAN 50.9 MAX 3450 MIN .02 CFSM .33 IN 4.49

05594800 SILVER CREEK NEAR FREEBURG, IL

LOCATION.--Lat 38°24'22", long 89°52'26", in NE¼NE¼ sec.33, T.1 S., R.7 W., St. Clair County, Hydrologic Unit 07140204, on right bank at downstream side of bridge on U.S. Highway 460, 2.2 mi (3.5 km) southeast of Freeburg and 4.8 mi (7.7 km) northwest of Fayetteville.

DRAINAGE AREA.--464 mi^2 (1,202 km^2).

PERIOD OF RECORD.--October 1970 to current year.

REVISED RECORDS.--WDR IL-73: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 381.40 ft (116.251 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

COOPERATION.--Six discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--7 years, 313 ft^3/s (8.864 m^3/s), 9.16 in/yr (233 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,750 ft^3/s (219 m^3/s) Apr. 29, 1975, gage height, 19.54 ft (5.956 m); minimum, 0.73 ft^3/s (0.021 m^3/s) Oct. 29, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,920 ft^3/s (139 m^3/s) Mar. 31, gage height, 17.04 ft (5.194 m); minimum daily, 2.0 ft^3/s (0.057 m^3/s) Jan. 22-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	63	5.0	5.0	5.5	238	4040	26	39	158	14	204
2	4.1	45	5.2	5.0	5.0	200	2630	37	37	77	10	110
3	4.4	40	4.7	4.5	4.5	187	1860	35	30	48	8.1	72
4	4.4	39	4.4	5.0	4.0	204	1000	30	22	36	6.7	120
5	6.2	35	4.1	5.0	6.0	204	315	26	15	32	5.5	70
6	53	28	5.0	5.0	6.5	256	173	60	12	26	4.9	43
7	82	21	6.5	5.0	5.0	216	129	222	8.9	19	4.6	43
8	60	15	14	5.0	4.0	144	106	96	7.1	14	5.6	39
9	44	11	12	5.5	3.5	102	87	73	6.4	11	175	29
10	29	8.3	10	5.0	3.0	74	74	58	5.9	10	493	21
11	20	7.1	9.3	4.5	30	70	66	46	5.7	29	795	15
12	12	6.1	8.9	4.0	192	761	58	38	4.9	104	645	13
13	7.9	5.4	8.5	3.5	542	987	52	32	38	85	309	12
14	5.5	4.9	8.0	3.0	659	971	48	28	53	48	144	37
15	3.8	4.8	8.0	3.0	701	933	44	24	23	29	77	221
16	3.1	4.5	7.5	3.0	500	928	41	21	11	20	47	233
17	3.3	4.1	7.5	3.0	350	880	38	18	8.4	13	32	126
18	3.8	3.9	7.0	3.5	250	510	35	16	7.1	11	23	79
19	3.1	4.1	7.0	3.0	200	265	34	13	6.6	8.8	17	108
20	2.8	5.3	7.0	2.5	154	184	38	12	6.2	7.1	13	64
21	4.0	5.6	6.5	2.5	118	144	39	10	6.3	6.3	11	57
22	4.5	5.3	6.5	2.0	104	118	38	10	9.5	6.7	10	63
23	7.1	4.4	6.0	2.0	116	100	37	15	99	10	35	53
24	34	4.4	6.0	2.0	181	88	35	11	101	11	706	42
25	41	3.9	5.5	2.0	251	81	32	6.4	349	331	936	33
26	61	5.0	5.0	2.5	355	74	31	6.3	594	155	937	29
27	125	4.7	5.0	3.0	493	112	30	9.0	432	54	943	66
28	105	7.2	5.0	4.0	346	1360	29	5.7	339	38	924	50
29	59	7.2	6.0	5.0	---	2020	28	6.1	148	41	569	29
30	45	5.9	6.0	6.0	---	3130	27	6.5	169	31	366	21
31	71	---	5.5	6.0	---	4660	---	20	---	20	331	---
TOTAL	913.4	409.1	212.6	120.0	5589.0	20201	11194	1017.0	2594.0	1489.9	8597.4	2102
MEAN	29.5	13.6	6.86	3.87	200	652	373	32.8	86.5	48.1	277	70.1
MAX	125	63	14	6.0	701	4660	4040	222	594	331	943	233
MIN	2.8	3.9	4.1	2.0	3.0	70	27	5.7	4.9	6.3	4.6	12
CFSM	.06	.03	.02	.008	.43	1.41	.80	.07	.19	.10	.60	.15
IN.	.07	.03	.02	.01	.45	1.62	.90	.08	.21	.12	.69	.17

CAL YR 1976 TOTAL 24730.5 MEAN 67.6 MAX 913 MIN 1.5 CFSM .15 IN 1.98
WTR YR 1977 TOTAL 54439.4 MEAN 149 MAX 4660 MIN 2.0 CFSM .32 IN 4.36

05595200 RICHLAND CREEK NEAR HECKER, IL

LOCATION.--Lat 38°19'26", long 89°58'15", in SW¼SE¼ sec.27 projected, T.2 S., R.8 W., St. Clair County, Hydrologic Unit 07140204, on right bank at downstream side of bridge on State Highway 156, 2 mi (3 km) northeast of Hecker and 5 mi (8 km) west of New Athens.

DRAINAGE AREA.--129 mi² (334 km²).

PERIOD OF RECORD.--October 1969 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 375.00 ft (114.300 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

COOPERATION.--Six discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--8 years, 88.6 ft³/s (2.509 m³/s), 9.33 in/yr (237 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,900 ft³/s (422 m³/s) Nov. 2, 1972, gage height, 42.88 ft (13.070 m); minimum daily, 4.2 ft³/s (0.12 m³/s) Oct. 17, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,200 ft³/s (62 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 12	0900	2930	83.0	38.76	11.814
Mar. 28	1545	*6020	170	*40.88	12.460
July 25	1900	2350	66.6	38.00	11.582
Aug. 23	2100	2660	75.3	38.42	11.710

Minimum daily discharge, 4.2 ft³/s (0.12 m³/s) Oct. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	14	11	8.0	7.0	62	58	13	8.0	68	8.7	15
2	6.1	11	11	8.0	7.0	43	76	21	8.6	25	8.2	13
3	5.4	11	12	8.0	7.0	65	47	16	8.0	16	7.5	14
4	5.0	10	11	7.0	7.0	102	42	15	8.0	15	7.0	16
5	12	10	10	7.0	7.0	41	39	16	7.6	14	7.0	18
6	138	9.4	18	7.0	8.0	28	34	436	7.6	12	7.2	31
7	13	9.1	19	7.0	8.0	25	32	875	7.4	12	7.7	19
8	8.7	8.6	20	7.0	7.0	23	33	67	7.8	12	8.7	15
9	6.5	9.9	15	7.0	10	21	29	31	8.9	12	428	13
10	5.4	8.8	9.0	7.0	20	20	26	23	8.9	11	524	13
11	5.7	8.6	8.0	7.0	288	47	25	19	8.6	176	211	12
12	5.4	9.0	8.0	7.0	885	2080	23	17	7.7	41	36	11
13	4.8	8.6	8.0	7.0	302	243	21	16	74	15	30	15
14	5.0	8.2	10	7.0	54	76	21	16	15	12	19	22
15	4.8	7.9	9.0	7.0	22	49	21	15	8.4	11	15	37
16	4.6	9.6	8.0	7.0	27	33	20	14	8.2	9.9	13	22
17	4.2	8.8	7.5	7.0	17	30	18	13	8.4	8.9	12	13
18	5.0	8.3	7.5	7.0	16	38	17	12	7.7	7.7	11	12
19	5.7	8.1	7.0	8.0	18	27	20	11	9.4	7.7	10	106
20	7.5	7.9	7.0	8.0	15	23	23	10	8.2	8.0	10	37
21	10	7.5	8.0	8.0	12	21	32	10	7.8	9.2	10	19
22	7.0	7.3	10	7.0	14	29	23	9.0	332	11	9.9	15
23	6.8	8.0	10	7.0	112	20	19	26	34	10	547	13
24	134	9.7	8.0	7.0	69	18	17	30	154	10	756	19
25	28	8.9	7.0	7.0	21	17	16	13	268	499	105	21
26	10	13	6.5	7.0	388	16	16	13	29	240	38	33
27	8.0	11	6.0	7.0	256	327	15	11	349	39	25	97
28	7.5	9.2	6.0	7.0	52	3820	15	9.8	102	21	20	32
29	7.3	11	6.0	7.0	---	1020	14	8.7	28	14	22	16
30	118	13	8.0	7.0	---	139	14	7.9	67	13	32	13
31	42	---	8.0	7.0	---	72	---	11	---	11	20	---
TOTAL	637.3	285.4	299.5	223.0	2656.0	8575	806	1805.4	1607.2	1371.4	2965.9	732
MEAN	20.6	9.51	9.66	7.19	94.9	277	26.9	58.2	53.6	44.2	95.7	24.4
MAX	138	14	20	8.0	885	3820	76	875	349	499	756	106
MIN	4.2	7.3	6.0	7.0	7.0	16	14	7.9	7.4	7.7	7.0	11
CFSM	.16	.07	.08	.06	.74	2.15	.21	.45	.42	.34	.74	.19
IN.	.18	.08	.09	.06	.77	2.47	.23	.52	.46	.40	.86	.21

CAL YR 1976 TOTAL 7681.3 MEAN 21.0 MAX 610 MIN 4.2 CFSM .16 IN 2.22
WTR YR 1977 TOTAL 21964.1 MEAN 60.2 MAX 3820 MIN 4.2 CFSM .47 IN 6.33

05595800 SEVENMILE CREEK NEAR MT. VERNON, IL

LOCATION.--Lat 38°19'10", long 88°50'50", in NW¼SW¼ sec.26, T.2 S., R.3 E., Jefferson County, Hydrologic Unit 07140106, on left bank at downstream side of bridge on State Highway 15, 250 ft (76 m) upstream from Southern Railway bridge, and 3 mi (5 km) east of Mt. Vernon.

DRAINAGE AREA.--21.1 mi² (54.6 km²).

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 436.76 ft (133.124 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--17 years, 14.9 ft³/s (0.422 m³/s), 9.59 in/yr (244 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,530 ft³/s (71.6 m³/s) May 8, 1961, gage height, 17.05 ft (5.197 m), from rating curve extended above 1,800 ft³/s (51.0 m³/s); no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,860 ft³/s (52.7 m³/s) Mar. 28, gage height, 13.97 ft (4.258 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	1.8	.17	.00	.00	8.9	5.0	.73	.00	.00	.00	2.6
2	.04	.84	.16	.00	.00	6.4	42	.60	.00	.00	.00	1.7
3	.02	.67	.16	.00	.00	70	16	.74	.00	.00	.00	1.2
4	.00	.35	.18	.00	.00	92	9.1	2.0	.00	.00	.00	.83
5	.03	.28	.21	.00	.00	17	7.5	5.3	.00	.00	.00	.53
6	.04	.16	.28	.00	.00	8.5	5.3	3.1	.00	.00	.00	.30
7	.01	.12	.66	.00	.00	6.7	4.3	46	.00	.00	.00	.16
8	.00	.06	.78	.00	.00	6.4	3.6	9.3	.00	.00	.00	.08
9	.00	.04	.49	.00	.00	7.1	3.2	4.3	.00	.00	2.2	.04
10	.00	.04	.71	.00	.00	5.2	3.0	2.7	.00	.00	57	.02
11	.00	.04	1.2	.00	5.0	14	2.6	2.1	.00	.00	28	.00
12	.00	.03	1.3	.00	39	274	2.3	1.7	.00	.79	15	.00
13	.00	.03	1.1	.00	22	25	2.1	1.3	.00	.01	6.2	.00
14	.00	.03	.83	.00	15	11	2.0	1.0	.00	.00	25	.00
15	.00	.03	.81	.00	19	7.9	1.8	.79	.00	.00	4.4	.00
16	.00	.03	.84	.00	16	6.6	1.7	.49	.00	.00	2.4	.00
17	.00	.03	.84	.00	13	5.8	1.4	.17	.00	.00	1.5	.00
18	.00	.03	.78	.00	12	28	1.3	.06	.00	.00	.92	.00
19	.00	.04	.75	.00	11	8.3	1.3	.01	.00	.00	.48	.00
20	.00	.04	.90	.00	9.6	7.6	1.4	.00	.00	.00	.20	.00
21	.00	.06	.90	.00	7.9	6.9	1.4	.00	.00	.00	.09	.00
22	.00	.06	.18	.00	5.9	7.4	2.2	.00	.00	.00	.04	.00
23	1.4	.06	.16	.00	8.8	5.5	2.4	.00	.00	.00	4.1	.00
24	3.6	.06	.16	.00	12	4.5	3.2	.00	.10	.00	6.4	.03
25	1.4	.06	.10	.00	4.5	4.7	2.0	.00	.00	.00	.90	.04
26	.35	.23	.10	.00	179	5.0	1.6	.00	.00	.00	.09	.03
27	.06	.94	.10	.00	113	233	1.3	.00	.80	.00	.00	.16
28	.00	1.0	.10	.00	11	1100	1.3	.00	1.9	.00	.01	.11
29	.00	.60	.10	.00	---	56	1.0	.00	.26	.00	77	.04
30	5.4	.27	.10	.00	---	14	.81	.00	.02	.00	10	.03
31	4.3	---	.10	.00	---	6.5	---	.00	---	.00	4.5	---
TOTAL	16.76	8.03	15.25	.00	503.70	2059.9	134.11	82.39	3.08	.80	246.43	7.90
MEAN	.54	.27	.49	.000	18.0	66.4	4.47	2.66	.10	.026	7.95	.26
MAX	5.4	1.8	1.3	.00	179	1100	42	46	1.9	.79	77	2.6
MIN	.00	.03	.10	.00	.00	4.5	.81	.00	.00	.00	.00	.00
CFSM	.03	.01	.02	.000	.85	3.15	.21	.13	.005	.001	.38	.01
IN.	.03	.01	.03	.00	.89	3.63	.24	.15	.01	.00	.43	.01

CAL YR 1976 TOTAL 1235.97 MEAN 3.38 MAX 98 MIN .00 CFSM .16 IN 2.18
WTR YR 1977 TOTAL 3078.35 MEAN 8.43 MAX 1100 MIN .00 CFSM .40 IN 5.43

05595950 REND LAKE NEAR BENTON, IL

LOCATION.--Lat 38°02'30", long 88°57'30", in NW¼ sec.2, T.6 S., R.2 E., Franklin County, Hydrologic Unit 07140106, at dam on Big Muddy River 3 mi (5 km) northwest of Benton.

DRAINAGE AREA.--448 mi^2 (1,264 km^2).

PERIOD OF RECORD.--February 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by a rolled-earth embankment, a main spillway of the broad-crested weir type and an auxiliary spillway for floods of rare occurrence. Gates closed Oct. 24, 1970. Gained full pool, elevation, 395 ft (120.4 m) on Feb. 24, 1971.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 330,140 acre-ft (407 hm^3) Apr. 27, 1975, elevation, 411.40 ft (125.395 m); minimum observed, 32,370 acre-ft (39.9 hm^3) Feb. 21, 1972, elevation, 392.60 ft (119.664 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 265,907 acre-ft (328 hm^3) Apr. 4, elevation, 408.83 ft (124.611 m); minimum observed, 153,710 acre-ft (190 hm^3) Feb. 8, elevation, 403.28 ft (122.920 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977.

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)
Sept. 30	404.35	172518	
Oct. 31	404.10	168000	- 4518
Nov. 30	403.70	160928	- 7072
Dec. 31	403.47	156949	- 3979
CAL YR 1976			- 32417
Jan. 31	403.33	154559	- 2390
Feb. 28	403.60	159189	+ 4630
Mar. 31	408.65	261721	+ 102532
Apr. 30	407.65	239066	- 22655
May 31	406.56	215616	- 23450
June 30	406.11	206360	- 9256
July 31	405.66	197357	- 9003
Aug. 31	405.85	201129	+ 3772
Sept. 30	405.39	192071	- 9058
WTR YR 1977			+ 19553

05597000 BIG MUDDY RIVER AT PLUMFIELD, IL

LOCATION.--Lat 37°54'05", long 89°00'50", in NW¼ sec.20, T.7 S., R.2 E., Franklin County, Hydrologic Unit 07140106, on left bank 0.8 mi (1.3 km) upstream from bridge on State Highway 149 at Plumfield, 1.9 mi (3.1 km) downstream from Middle Fork Big Muddy River and at mile 85.10 (136.93 km).

DRAINAGE AREA.--794 mi² (2,056 km²).

PERIOD OF RECORD.--June 1908 to September 1910 and December 1910 to December 1912 (published as "near Cambon"), August 1914 to current year.

REVISED RECORDS.--WSP 700: 1929. WSP 805: 1935. WSP 1508: 1908-10, 1920-21(M), 1928(M), 1932(M). WDR IL-75: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 353.24 ft (107.668 m) above mean sea level. June 16, 1908, to Dec. 31, 1912, nonrecording gage at site 1.7 mi (2.7 km) upstream at different datum. Aug. 14, 1914, to July 12, 1932, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum. July 13, 1932, to Nov. 12, 1938, nonrecording gage at bridge 0.8 mi (1.3 km) downstream at datum 0.86 ft (0.26 m) higher. Nov. 13, 1938, to Sept. 30, 1974, water-stage recorder at present site at datum 5.0 ft (1.52 m) higher. Since Oct. 1, 1974, auxiliary water-stage recorder at pumping plant at Zeigler, 4 mi (6 km) downstream, at datum 353.24 ft (107.668 m) above mean sea level. Feb. 14, 1937, to Sept. 30, 1974, auxiliary nonrecording gage at same site at datum 5.0 ft (1.52 m) higher.

REMARKS.--Records good. Flow regulated since October 1970 by Rend Lake (station 05595950) 18.6 mi (29.9 km) above gage. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--58 years (water years 1909, 1912, 1915-70), 699 ft³/s (19.80 m³/s), 11.96 in/yr (304 mm/yr), prior to construction of Rend Lake. 7 years, 576 ft³/s (16.31 m³/s), since construction of Rend Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,900 ft³/s (1,210 m³/s) May 10, 1961; maximum gage height, 29.67 ft (9.043 m) May 10, 1961; no flow at times in 1908-9, 1914, 1936, 1940-41.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,110 ft³/s (173 m³/s) Mar. 30; maximum gage height, 25.47 ft (7.763 m) Mar. 30; minimum discharge, 35 ft³/s (0.99 m³/s) Dec. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	55	40	36	45	370	4420	482	215	184	72	549
2	50	70	41	36	45	337	3760	462	206	174	72	435
3	50	80	40	38	50	302	3330	449	194	145	68	258
4	49	60	40	39	59	586	2960	441	185	124	64	187
5	49	45	39	39	65	597	2610	431	178	117	59	134
6	47	40	40	39	66	605	2270	421	169	113	58	108
7	49	40	41	38	60	590	1940	419	176	111	57	104
8	49	40	41	37	50	513	1690	415	168	106	59	93
9	49	40	40	38	40	413	1440	409	156	102	135	88
10	49	38	42	38	40	281	1210	398	148	106	314	82
11	48	37	43	38	60	202	991	385	139	128	268	78
12	46	38	46	40	154	450	846	372	137	173	153	74
13	46	38	44	42	309	807	737	363	138	151	118	71
14	46	38	42	44	337	742	685	353	137	117	110	70
15	46	38	43	48	303	765	647	343	130	103	104	73
16	47	39	43	48	230	741	625	324	122	96	102	69
17	47	40	41	45	171	636	605	321	117	91	116	67
18	46	40	41	45	112	488	590	311	114	88	154	65
19	45	40	[illegible]	42	83	391	577	308	114	83	131	357
20	45	40	[illegible]	42	70	317	561	299	114	83	99	638
21	45	41	39	40	61	295	548	290	112	86	89	590
22	45	39	36	40	59	255	560	280	110	84	99	654
23	55	38	41	40	60	202	707	274	115	82	145	471
24	80	38	37	45	153	161	824	271	125	78	136	308
25	120	38	40	52	240	143	840	278	135	78	115	421
26	90	39	37	54	225	133	834	262	248	82	93	444
27	80	48	39	54	476	419	797	252	303	79	83	468
28	70	45	38	52	432	2260	688	240	300	73	78	444
29	100	41	35	51	---	4660	572	230	295	70	320	411
30	80	40	39	49	---	6000	520	222	217	69	535	248
31	62	---	39	47	---	5380	---	220	---	68	552	---
TOTAL	1780	1303	1247	1336	4055	30039	39384	10525	5017	3244	4558	8059
MEAN	57.4	43.4	40.2	43.1	145	969	1313	340	167	105	147	269
MAX	120	80	46	54	476	6000	4420	482	303	184	552	654
MIN	45	37	35	36	40	133	520	220	110	68	57	65

CAL YR 1976 TOTAL 76331 MEAN 209 MAX 1700 MIN 35
WTR YR 1977 TOTAL 110547 MEAN 303 MAX 6000 MIN 35

05597500 CRAB ORCHARD CREEK NEAR MARION, IL

LOCATION.--Lat 37°43'52", long 88°53'21", in SW¼SW¼ sec.16, T.9 S., R.3 E., Williamson County, Hydrologic Unit 07140106, on right bank at downstream side of bridge on State Highway 13, 1.8 mi (2.9 km) downstream from Buckley Creek and 2 mi (3 km) east of Marion.

DRAINAGE AREA.--31.7 mi² (82.1 km²).

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 1388: 1952-54. WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 415.82 ft (126.742 m) above mean sea level. Prior to Aug. 25, 1965, nonrecording gage and crest-stage gage at bridge 800 ft (244 m) downstream and Aug. 25, 1965, to Oct. 28, 1965, nonrecording gage at present site and datum.

REMARKS.--Records fair except those for period of no gage-height record, Dec. 15 to Feb. 3, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--26 years, 22.4 ft³/s (0.634 m³/s), 9.60 in/yr (244 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,500 ft³/s (99.1 m³/s) May 7, 1961, gage height, 11.62 ft (3.542 m), site then in use, from rating curve extended above 1,300 ft³/s (36.8 m³/s); no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 28	0430	*3300	93.5	*12.90	3.932	Sept. 19	1630	551	15.6	10.82	3.298

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	2.4	1.3	.50	.50	13	16	2.2	.23	2.2	.00	.66
2	.20	1.3	1.3	.50	.50	9.4	26	2.0	.22	.88	.00	.48
3	.18	.68	1.4	.50	.50	75	22	2.1	.20	.44	.00	.48
4	.07	.46	1.4	.50	.40	357	14	3.2	.18	.34	.00	.54
5	.03	.28	1.2	.50	.40	167	14	3.3	.16	.29	.00	.53
6	.00	.24	1.6	.50	.30	29	11	2.6	.11	.20	.00	.49
7	.00	.20	2.4	.50	.30	18	8.4	3.2	.11	.15	.00	.53
8	.00	.24	1.4	.50	.30	13	7.2	2.6	.08	.12	.00	.51
9	.00	.28	1.2	.50	.30	9.7	6.0	2.9	.07	.13	33	3.1
10	.12	.52	1.5	.40	.30	8.0	5.4	2.3	.09	.19	16	3.1
11	.12	.60	2.7	.40	12	9.1	4.9	3.6	.14	.95	1.8	1.2
12	.04	.50	2.0	.40	54	236	4.5	4.0	.23	.65	.76	.67
13	.00	.48	1.7	.40	62	168	4.1	2.5	.26	.36	3.2	36
14	.00	.51	1.3	.40	25	27	3.9	1.6	.23	.23	1.6	66
15	.00	.42	1.3	.40	12	17	3.8	1.4	.25	.11	.61	21
16	3.2	.45	1.2	.40	7.0	11	3.3	1.0	.26	.01	.36	7.9
17	12	.41	1.3	.40	6.0	7.9	3.1	.75	.26	.00	.32	3.8
18	2.9	.45	1.3	.40	5.0	44	2.8	.54	.21	.00	.32	2.7
19	1.2	.53	1.2	.40	4.7	23	3.1	.49	.17	.00	.24	398
20	.61	.48	.99	.40	4.3	16	3.6	.42	.10	.00	.08	340
21	.46	.72	.64	.40	3.3	11	3.3	.38	.02	.00	.00	40
22	.36	.65	.48	.40	2.6	9.2	12	.37	.00	.00	.32	12
23	2.1	.48	.61	.40	25	6.4	38	.32	.13	.00	.20	6.7
24	6.8	.47	.42	.40	90	5.7	19	.34	.89	.00	.13	57
25	5.0	.51	.64	.40	21	4.1	8.6	.37	.81	.00	.01	40
26	2.7	4.0	.74	.40	15	3.9	5.3	.37	.66	.00	.00	11
27	1.6	3.5	.72	.40	49	205	3.9	.40	1.2	.00	.00	13
28	.76	2.1	.76	.40	22	1900	3.1	.45	6.9	.00	.00	11
29	1.4	1.7	.68	.50	---	377	2.6	.55	5.6	.00	3.1	5.2
30	3.2	1.3	.66	.50	---	74	2.3	.45	1.2	.00	2.6	3.1
31	4.6	---	.50	.50	---	27	---	.29	---	.00	1.0	---
TOTAL	49.89	26.86	36.54	13.60	423.70	3881.4	265.2	46.99	21.02	7.25	65.65	1086.69
MEAN	1.61	.90	1.18	.44	15.1	125	8.84	1.52	.70	.23	2.12	36.2
MAX	12	4.0	2.7	.50	90	1900	38	4.0	6.9	2.2	33	398
MIN	.00	.20	.42	.40	.30	3.9	2.3	.29	.00	.00	.00	.48
CFSM	.05	.03	.04	.01	.48	3.94	.28	.05	.02	.007	.07	1.14
IN.	.06	.03	.04	.02	.50	4.55	.31	.06	.02	.01	.08	1.28

CAL YR 1976 TOTAL 5459.83 MEAN 14.9 MAX 595 MIN .00 CFSM .47 IN 6.41
WTR YR 1977 TOTAL 5924.79 MEAN 16.2 MAX 1900 MIN .00 CFSM .51 IN 6.95

05598000 CRAB ORCHARD LAKE NEAR CARTERVILLE, IL

LOCATION.--Lat 37°42'46", long 89°03'32", in SW¼NE¼ sec.25, T.9 S., R.1 E., Williamson County, Hydrologic Unit 07140106, on north shore 300 ft (91 m) north of Wolf Creek Road bridge, 3.2 mi (5.1 km) southeast of Carterville and 8 mi (13 km) east of Carbondale.

PERIOD OF RECORD.--October 1952 to current year. Prior to October 1964, published as "near Carbondale."

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft (121.920 m) above mean sea level. Prior to Apr. 22, 1953, nonrecording gage at present site and Apr. 22, 1953, to Oct. 14, 1964, water-stage recorder at site 5.0 mi (8.0 km) west, at same datum.

REMARKS.--Lake is part of Crab Orchard National Wildlife Refuge. Diversion from lake for municipal supply of Carbondale, Marion, Herrin, and Carterville during drought periods.

COOPERATION.--Water-stage recorder inspected by employee of Fish and Wildlife Service, Department of the Interior.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.85 ft (2.697 m) Mar. 28, 1977; minimum, 2.35 ft (0.716 m) Nov. 6, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.85 ft (2.697 m) Mar. 28; minimum, 4.65 ft (1.417 m) Oct. 19.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.85	4.90	4.80	4.83	4.98	5.50	6.30	5.31	5.18	5.32	4.99	5.45
2	4.86	4.91	4.80	4.82	4.98	5.45	6.08	5.30	5.15	5.31	4.97	5.43
3	4.84	4.91	4.80	4.83	4.98	5.51	5.96	5.30	5.12	5.29	4.94	5.40
4	4.83	4.92	4.79	4.84	4.98	5.75	5.87	5.27	5.11	5.28	4.93	5.39
5	4.82	4.88	4.78	4.85	4.98	5.80	5.74	5.30	5.11	5.26	4.91	5.37
6	4.84	4.87	4.80	4.85	4.98	5.80	5.72	5.29	5.09	5.25	4.90	5.35
7	4.81	4.88	4.84	4.86	4.98	5.73	5.63	5.34	5.03	5.24	4.88	5.34
8	4.80	4.85	4.83	4.87	4.98	5.66	5.55	5.34	5.01	5.24	4.87	5.32
9	4.79	4.85	4.81	4.89	4.99	5.62	5.49	5.29	4.97	5.25	5.06	5.33
10	4.78	4.85	4.84	4.92	5.00	5.55	5.45	5.32	4.95	5.25	5.19	5.35
11	4.77	4.83	4.85	4.93	5.03	5.52	5.43	5.43	4.95	5.27	5.21	5.32
12	4.76	4.80	4.85	4.91	5.07	5.80	5.41	5.30	4.93	5.28	5.22	5.30
13	4.76	4.79	4.85	4.90	5.10	5.92	5.37	5.30	4.92	5.27	5.23	5.35
14	4.75	4.79	4.85	4.96	5.14	5.90	5.35	5.28	4.92	5.26	5.24	5.42
15	4.75	4.79	4.86	4.96	5.14	5.81	5.33	5.27	4.92	5.25	5.23	5.44
16	4.72	4.77	4.86	4.97	5.15	5.70	5.32	5.25	4.90	5.23	5.23	5.43
17	4.71	4.79	4.86	4.96	5.15	5.60	5.31	5.25	4.89	5.22	5.30	5.40
18	4.68	4.78	4.85	4.97	5.15	5.66	5.29	5.23	4.87	5.20	5.31	5.39
19	4.67	4.77	4.85	4.97	5.16	5.61	5.27	5.23	4.87	5.17	5.30	5.58
20	4.71	4.76	4.92	4.97	5.16	5.59	5.27	5.20	4.87	5.15	5.28	5.64
21	4.70	4.75	4.86	4.97	5.16	5.57	5.30	5.21	4.83	5.14	5.28	5.68
22	4.68	4.77	4.85	4.98	5.16	5.55	5.35	5.21	4.84	5.12	5.26	5.66
23	4.74	4.75	4.86	4.98	5.25	5.48	5.47	5.17	4.85	5.11	5.25	5.60
24	4.86	4.75	4.82	4.99	5.38	5.45	5.49	5.21	4.99	5.12	5.25	5.62
25	4.86	4.74	4.85	4.99	5.40	5.43	5.47	5.21	5.01	5.13	5.23	5.65
26	4.85	4.81	4.85	4.99	5.43	5.40	5.48	5.21	5.03	5.11	5.21	5.63
27	4.85	4.85	4.82	4.99	5.53	5.73	5.38	5.22	5.12	5.09	5.20	5.60
28	4.85	4.84	4.84	4.99	5.52	8.42	5.37	5.21	5.23	5.07	5.19	5.56
29	4.84	4.82	4.86	4.98	---	8.45	5.33	5.19	5.26	5.05	5.38	5.52
30	4.89	4.80	4.85	4.98	---	7.46	5.32	5.20	5.29	5.02	5.49	5.48
31	4.92	---	4.83	4.98	---	6.75	---	5.22	---	5.00	5.48	---
MEAN	4.79	4.82	4.84	4.93	5.14	5.91	5.50	5.26	5.01	5.19	5.17	5.47
MAX	4.92	4.92	4.92	4.99	5.53	8.45	6.30	5.43	5.29	5.32	5.49	5.68
MIN	4.67	4.74	4.78	4.82	4.98	5.40	5.27	5.17	4.83	5.00	4.87	5.30

WTR YR 1977 MEAN 5.17 MAX 8.45 MIN 4.67

05599000 BEAUCOUP CREEK NEAR MATTHEWS, IL

LOCATION.--Lat 37°58'00", long 89°21'00", in SW¼ sec.29, T.6 S., R.2 W., Perry County, Hydrologic Unit 07140106, on right bank at downstream side of bridge on State Highway 13, 1.2 mi (1.9 km) east of Matthews, 3.5 mi (5.6 km) upstream from Galum Creek, and 7 mi (11 km) southwest of Du Quoin.

DRAINAGE AREA.--292 mi² (756 km²).

PERIOD OF RECORD.--October 1945 to current year.

REVISED RECORDS.--WDR IL-75: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 368.15 ft (112.212 m) above mean sea level. Prior to July 25, 1946, nonrecording gage at same site and datum.

REMARKS.--Records fair. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--32 years, 219 ft³/s (6.202 m³/s), 10.32 in/yr (262 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,800 ft³/s (532 m³/s) May 9, 1961, gage height, 23.41 ft (7.135 m); no flow at times each year 1953-59, 1961-63, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,870 ft³/s (280 m³/s) Mar. 29, gage height, 20.71 ft (6.312 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Nov. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	132	18	5.5	4.5	586	1550	14	27	59	4.2	28
2	3.4	95	16	5.5	4.5	153	491	13	19	32	3.4	19
3	3.3	29	15	5.5	4.5	155	837	13	14	20	3.2	28
4	3.1	11	14	5.5	4.5	758	957	14	12	14	3.4	47
5	3.0	6.8	13	5.5	6.0	1140	345	14	11	12	3.4	17
6	4.4	4.5	12	5.5	8.0	634	181	15	10	11	3.3	33
7	13	2.6	11	5.0	10	162	121	115	8.8	10	3.3	23
8	18	1.7	10	5.0	8.0	78	87	286	9.3	9.4	3.3	14
9	23	1.2	9.5	5.0	10	51	69	241	9.5	9.2	64	11
10	14	2.7	9.0	5.0	15	39	59	73	8.7	31	228	9.1
11	12	5.0	8.5	5.5	36	39	52	40	7.8	145	491	12
12	8.9	13	10	6.0	164	904	48	29	7.5	633	657	11
13	4.5	10	12	7.0	535	1560	44	24	9.2	368	761	7.9
14	3.3	8.3	15	7.0	483	1920	39	21	8.7	92	499	7.9
15	3.0	6.9	15	6.5	208	2060	36	19	6.9	39	101	9.4
16	2.7	5.9	13	6.0	113	847	33	17	6.4	23	45	8.7
17	2.6	5.4	11	5.5	49	177	29	16	7.0	15	30	7.1
18	2.5	6.4	10	5.0	33	262	25	15	6.8	10	18	5.4
19	2.4	7.6	9.0	5.0	25	441	24	15	6.5	7.9	14	327
20	2.3	8.2	8.5	4.5	20	268	26	15	6.4	6.8	11	173
21	2.2	8.2	8.0	4.5	18	129	26	15	5.8	6.2	8.8	75
22	2.1	8.6	7.5	4.5	18	89	28	15	9.8	5.7	7.7	36
23	5.0	9.7	7.0	4.5	20	69	26	16	26	5.3	31	24
24	10	10	6.5	5.0	556	61	24	19	73	4.8	29	90
25	16	12	6.0	7.0	941	67	23	16	143	39	17	103
26	31	17	6.0	8.0	497	39	22	25	194	30	11	59
27	23	19	6.0	6.0	895	267	19	19	168	15	8.6	53
28	13	20	6.0	5.5	1160	2280	18	16	276	13	7.3	31
29	8.6	20	6.0	5.0	---	7290	17	14	176	7.7	38	23
30	8.9	19	5.5	5.0	---	6870	16	13	91	6.4	97	18
31	19	---	5.5	4.5	---	3310	---	22	---	5.2	52	---
TOTAL	272.0	506.7	309.5	170.5	5846.0	32685	5272	1199	1365.1	1685.6	3253.9	1310.5
MEAN	8.77	16.9	9.98	5.50	209	1054	176	38.7	45.5	54.4	105	43.7
MAX	31	132	18	8.0	1160	7290	1550	286	276	633	761	327
MIN	2.1	1.2	5.5	4.5	4.5	39	16	13	5.8	4.8	3.2	5.4
CFSM	.03	.06	.03	.02	.72	3.61	.60	.13	.16	.19	.36	.15
IN.	.03	.06	.04	.02	.74	4.16	.67	.15	.17	.21	.41	.17

CAL YR 1976 TOTAL 25968.0 MEAN 70.9 MAX 1680 MIN 1.2 CFSM .24 IN 3.31
WTR YR 1977 TOTAL 53875.8 MEAN 148 MAX 7290 MIN 1.2 CFSM .51 IN 6.86

05599500 BIG MUDDY RIVER AT MURPHYSBORO, IL
(National stream-quality accounting network station)

LOCATION.--Lat 37°44'55", long 89°20'45", in SE¼ sec.8, T.9 S., R.2 W., Jackson County, Hydrologic Unit 07140106, on left bank just upstream from Lewis Creek, 0.1 mi (0.2 km) upstream from Illinois Central Gulf Railroad bridge, at Murphysboro.

DRAINAGE AREA.--2,162 mi^2 (5,600 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1916 to current year (fragmentary prior to 1931).

REVISED RECORDS.--WDR IL-73: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 335.5 ft (102.26 m) above mean sea level. Prior to June 20, 1931, nonrecording gage at South Twentieth Street Bridge, 1,300 ft (396 m) downstream, at datum 5 ft (1.52 m) lower. June 20, 1931, to July 11, 1933, nonrecording gage at upstream side of Illinois Central Gulf Railroad bridge across mouth of Lewis Creek at present datum. Since Nov. 14, 1973, auxiliary water-stage recorder 7,700 ft (2,347 m) upstream. Oct. 6, 1931, to Nov. 13, 1973, auxiliary nonrecording gage read twice daily at same site.

REMARKS.--Water-discharge records fair. Flow regulated since October 1970 by Rend Lake (station 05595950) 67.8 mi (109.1 km) above gage.

AVERAGE DISCHARGE.--40 years (water years 1931-70), 1,788 ft^3/s (50.64 m^3/s), 11.23 in/yr (285 mm/yr), prior to construction of Rend Lake. 7 years, 1,646 ft^3/s (46.61 m^3/s), since construction of Rend Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,300 ft^3/s (943 m^3/s) May 11, 1961; maximum gage height, 37.97 ft (11.573 m) May 12, 1961; maximum daily reverse flow, 4,400 ft^3/s (125 m^3/s) June 3, 1947, caused by backwater from Mississippi River; no flow Aug. 13 to Sept. 1, 1936, unaffected by backwater.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 2, 1916, reached a stage of 34.9 ft (10.64 m), present datum, discharge, 28,000 ft^3/s (793 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,500 ft^3/s (524 m^3/s) Apr. 1; maximum gage height, 31.78 ft (9.687 m) Apr. 1; minimum daily discharge, 60 ft^3/s (1.70 m^3/s) Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	167	89	71	76	1700	17500	940	285	775	230	1350
2	77	157	87	69	73	1590	17100	808	279	632	162	1190
3	69	250	81	69	73	996	15200	650	275	518	154	927
4	64	256	80	69	78	1230	13500	647	269	474	154	640
5	61	185	78	69	101	1770	12200	627	255	374	182	512
6	61	138	79	71	117	2000	10900	693	238	273	190	488
7	60	109	82	74	122	2050	9840	649	218	219	176	310
8	61	97	83	74	100	1720	8460	707	218	191	165	297
9	61	87	87	77	90	1280	7470	826	220	178	472	300
10	66	79	90	78	100	952	6520	932	213	201	563	307
11	74	74	104	77	250	700	5180	792	204	413	1100	270
12	77	70	124	75	350	1640	4480	636	195	522	1660	190
13	74	68	126	74	550	3320	3590	658	196	997	1960	143
14	74	66	121	74	700	3760	2880	619	195	1020	2090	130
15	69	65	119	74	800	3940	2240	599	193	608	1710	130
16	69	66	113	75	750	4010	1650	579	193	436	937	120
17	66	69	107	75	650	4100	1200	555	190	295	642	120
18	63	70	102	75	551	3600	1060	535	180	205	573	120
19	61	71	98	70	432	2940	940	517	171	172	395	500
20	63	72	94	70	342	2460	915	499	154	149	315	1820
21	64	70	91	70	261	1950	884	486	148	130	235	1970
22	69	69	82	65	217	1420	863	481	141	116	186	1910
23	107	69	80	65	241	964	904	468	155	116	179	1870
24	215	69	78	65	494	665	1170	450	258	116	179	1740
25	259	69	77	70	934	476	1330	450	427	200	220	1870
26	253	76	77	86	1190	358	1370	450	455	475	270	1670
27	232	79	77	87	1640	1060	1330	436	759	603	235	1500
28	212	88	77	89	1660	4160	1200	409	1120	494	196	1340
29	179	89	77	89	---	8120	1200	370	1200	325	977	1080
30	163	91	77	88	---	12500	1190	330	1040	215	1500	932
31	174	---	75	81	---	16400	---	305	---	205	1570	---
TOTAL	3271	2985	2812	2315	12942	93811	154266	18103	10044	11646	19577	25746
MEAN	106	99.5	90.7	74.7	462	3026	5142	584	335	376	632	858
MAX	259	256	126	89	1660	16400	17500	940	1200	1020	2090	1970
MIN	60	65	75	65	73	358	863	305	141	116	154	120

CAL YR 1976 TOTAL 267752 MEAN 732 MAX 4930 MIN 56
WTR YR 1977 TOTAL 357518 MEAN 980 MAX 17500 MIN 60

05599500 BIG MUDDY RIVER AT MURPHYSBORO, IL--Continued

WATER-QUALITY RECORDS

LOCATION.--Samples collected at bridge on State Highway 127 at Murphysboro, 1.5 mi (2.3 km) upstream from discharge station at auxiliary gage.

PERIOD OF RECORD.--Water year 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1975 to current year.
WATER TEMPERATURES: July 1975 to current year.

REMARKS.--The river was frozen from Dec. 7 to Feb. 9, thus preventing most daily measurements from being taken. Other interruptions in the daily record due to lost samples.

COOPERATION.--Pesticide samples were collected by U.S. Geological Survey and analyzed by the U.S. Environmental Protection Agency.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 2,200 micromhos Oct. 4, 1975; minimum daily, 168 micromhos July 4, 1976.
WATER TEMPERATURES: Maximum daily, 32.0°C July 20, 1977; minimum daily, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily recorded, 1,400 micromhos Jan. 26; minimum daily, 170 micromhos Apr. 1.
WATER TEMPERATURES: Maximum daily, 32.0°C July 20; minimum daily, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	AIR TEMPER-ATURE (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM .7UM-MF (COL./100 ML)	FECAL STREP-TOCOCCI KF AGAR (COL. PER 100 ML)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT 18...	1540	63	1100	8.2	13.0	13.0	9	12.2	844	B11	460	330
NOV 15...	1300	65	940	7.3	6.0	5.0	25	9.0	B19	26	350	240
DEC 13...	1530	126	1150	7.5	.0	1.0	--	15.2	58	1300	--	--
JAN 17...	1100	75	1280	7.2	--	.0	3	6.0	32	22	530	370
FEB 08...	1130	100	1320	7.5	2.0	.0	4	6.5	69	690	510	340
MAR 22...	1400	1420	560	7.2	14.5	11.5	85	8.4	110	410	210	150
APR 01...	1400	17500	185	7.2	18.0	15.2	110	5.1	160	830	65	35
MAY 02...	1400	808	600	8.0	24.5	18.0	40	8.0	93	47	210	140
JUN 01...	1000	285	625	7.6	28.5	25.8	15	6.3	64	250	210	130
JUL 11...	1545	413	645	7.5	33.0	28.5	4	6.3	160	920	210	5
AUG 16...	1400	937	395	7.1	34.0	26.0	30	4.4	B70	460	140	100
SEP 12...	1200	190	850	7.5	24.0	23.5	40	8.0	74	190	310	240

B Results based on colony count outside acceptable range (non-ideal colony count).

05599500 BIG MUDDY RIVER AT MURPHYSBORO, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL SUL-FIDE (S) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT												
18...	110	46	75	26	1.5	6.0	160	0	130	1.6	--	420
NOV												
15...	80	36	56	25	1.3	6.6	140	0	120	11	--	310
DEC												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
17...	120	56	79	24	1.5	5.8	190	0	160	19	--	480
FEB												
08...	120	52	90	27	1.7	6.8	210	0	170	11	--	480
MAR												
22...	49	21	36	26	1.0	4.4	71	0	58	7.2	--	170
APR												
01...	16	6.0	10	24	.5	3.5	36	0	30	3.6	--	53
MAY												
02...	45	23	41	30	1.2	4.8	80	0	66	1.3	--	180
JUN												
01...	51	20	46	32	1.4	5.4	97	0	80	3.9	--	160
JUL												
11...	51	19	38	28	1.2	5.4	250	0	210	13	7.0	160
AUG												
16...	35	13	21	24	.8	4.8	44	0	36	5.6	--	130
SEP												
12...	76	30	48	24	1.2	8.0	86	0	71	4.4	--	320

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT												
18...	43	.4	1.6	800	781	1.09	136	.01	1.2	1.2	5.4	.21
NOV												
15...	48	.3	6.7	629	613	.86	110	.57	.78	1.4	6.0	.13
JAN												
17...	57	.3	3.8	944	895	1.28	191	.82	1.4	2.2	9.8	.55
FEB												
08...	59	.4	5.0	992	918	1.35	268	.66	2.4	3.1	14	.55
MAR												
22...	27	.2	6.6	383	347	.52	1470	.33	1.0	1.3	5.9	.22
APR												
01...	8.8	.2	4.5	136	120	.19	6430	.45	1.1	1.6	6.9	.20
MAY												
02...	33	.2	3.6	412	370	.56	899	.30	1.2	1.5	6.6	.23
JUN												
01...	35	.2	2.9	406	368	.55	312	.37	1.2	1.6	7.0	.22
JUL												
11...	32	.2	3.1	394	432	.54	439	.43	1.1	1.5	6.8	.14
AUG												
16...	14	.2	6.5	281	246	.38	711	.47	1.7	2.2	9.6	.27
SEP												
12...	27	.2	4.6	582	556	.79	299	.22	1.0	1.2	5.4	.21

05599500 BIG MUDDY RIVER AT MURPHYSBORO, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)
NOV 15...	3	2	1	1	1	0	<10	0	<10	0	0	0
FEB 08...	1	0	1	3	2	1	<10	0	<10	1	1	0
APR 01...	--	--	1	--	--	--	--	--	<10	--	--	--
MAY 02...	4	3	1	0	0	0	<10	<3	7	0	0	0
JUL 11...	--	--	0	--	--	--	--	--	1	--	--	--
AUG 16...	2	2	0	4	4	0	20	20	0	8	8	0

DATE	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
NOV 15...	20	10	10	1400	70	34	34	0	690	0	690
FEB 08...	40	30	10	1100	120	60	58	2	1200	100	1100
APR 01...	--	--	10	--	290	--	--	--	--	--	80
MAY 02...	10	8	2	4300	10	10	10	0	1000	980	20
JUL 11...	--	--	4	--	50	--	--	--	--	--	390
AUG 16...	11	11	0	7200	100	50	47	3	680	190	490

DATE	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 15...	<.5	.0	<.5	0	0	0	30	10	20	11
FEB 08...	<.5	.0	<.5	0	0	0	40	20	20	8.7
APR 01...	--	--	<.5	--	--	--	--	--	10	7.6
MAY 02...	.0	.0	.0	0	--	--	30	30	0	8.9
JUL 11...	--	--	.0	--	--	--	--	--	0	5.3
AUG 16...	.0	.0	.0	1	1	0	30	10	20	8.5

05599500 BIG MUDDY RIVER AT MURPHYSBORO, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ATRAZINE (UG/L)	ATRAZINE IN BOTTOM MATERIAL (UG/KG DRY SOLIDS)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MATERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)
NOV 16...	ND	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND
FEB 08...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAY 02...	ND	ND	.58	ND	ND	13	ND	--	ND	--	ND	--
AUG 16...	ND	--	.62	--	ND	--	ND	--	ND	--	ND	--

DATE	TOTAL DIAZINON (UG/L)	DIAZINON IN BOTTOM MATERIAL (UG/KG)	TOTAL DIELDRIN (UG/L)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)
NOV 16...	ND	ND	ND	3.0	ND	ND	ND	ND	ND	ND	ND	.5
FEB 08...	.18	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAY 02...	ND	7.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 16...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALATHION (UG/L)	MALATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHOXYCHLOR (UG/L)	METHOXYCHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL TRITHION (UG/L)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL PARATHION (UG/L)	SIMAZINE TOTAL COULSON COND. (UG/L)
NOV 16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 08...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	ND
MAY 02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 16...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	ND

DATE	SIMAZINE IN BOTTOM MATERIAL (UG/KG DRY SOLIDS)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	TRITHION IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	2,4-D IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4,5-T (UG/L)	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	TOTAL SILVEX (UG/L)	SILVEX IN BOTTOM MATERIAL (UG/KG)
NOV 16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 08...	--	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAY 02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 16...	--	--	ND	--	ND	--	ND	--	ND	--	ND	--

ND Not detected.

05599500 BIG MUDDY RIVER AT MURPHYSBORO, IL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT				
18...	82000	153	26	87
NOV				
15...	6800	105	18	97
DEC				
13...	8100	106	36	99
JAN				
17...	10000	173	35	98
FEB				
08...	1200	113	31	93
MAR				
22...	--	244	935	89
APR				
01...	--	167	7890	91
MAY				
02...	78000	140	305	98
JUN				
01...	51000	146	112	96
JUL				
11...	--	161	180	97
AUG				
16...	8300	428	1080	98
SEP				
12...	44000	124	64	97

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	740	1010	930	---	---	485	170	550	625	530	600	460
2	735	540	760	---	---	510	175	575	605	475	590	425
3	790	720	680	---	---	535	180	570	610	530	620	380
4	840	860	810	---	---	500	185	580	690	570	640	440
5	870	1000	750	---	---	510	190	590	690	590	620	---
6	860	700	850	---	---	470	220	575	730	590	630	550
7	855	860	---	---	---	485	215	580	755	590	615	575
8	850	1020	---	---	1320	470	240	575	780	575	720	445
9	835	640	---	---	---	485	275	905	770	590	810	520
10	820	700	---	---	1280	510	300	830	775	600	450	575
11	810	780	---	---	1050	530	355	640	750	645	730	740
12	820	700	710	---	1020	480	400	545	730	490	350	820
13	1090	620	1150	1200	850	320	435	570	725	480	370	790
14	1260	565	---	900	925	370	480	580	720	490	390	740
15	1120	940	---	---	800	335	520	570	730	550	335	620
16	1060	660	---	---	730	350	540	570	800	475	390	700
17	1080	600	---	1280	695	390	560	570	880	480	450	720
18	1080	700	---	---	700	420	580	595	760	550	400	660
19	1050	750	---	---	680	415	580	595	820	580	485	510
20	1050	750	---	---	690	525	590	605	790	610	580	580
21	965	750	---	---	720	545	595	610	750	620	610	560
22	830	950	---	---	730	540	600	610	730	620	655	410
23	692	760	---	---	730	585	600	615	760	630	610	370
24	700	560	---	---	725	600	565	660	765	635	625	360
25	615	580	---	---	725	620	625	600	730	610	680	370
26	610	800	---	1400	495	640	595	600	1340	630	650	410
27	680	600	---	1210	600	580	555	770	880	620	760	440
28	825	700	---	---	480	235	550	1040	510	440	760	430
29	975	760	---	---	---	185	560	1060	590	520	450	500
30	1120	940	---	---	---	220	450	1020	458	620	310	480
31	1140	---	---	---	---	180	---	670	---	590	375	---
MEAN	896	751	830	1200	797	452	430	659	742	565	557	537

WTR YR 1977 MEAN 648 MAX 1400 MIN 170

05599500 BIG MUDDY RIVER AT MURPHYSBORO, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.0	8.5	3.0	---	---	5.0	15.0	17.0	26.0	25.0	28.0	25.0
2	20.0	9.0	4.0	---	---	6.0	15.0	18.0	26.0	29.0	28.0	26.0
3	20.0	9.0	3.0	---	---	6.0	14.0	19.0	26.0	26.0	28.0	27.0
4	20.0	8.5	2.0	---	---	7.0	14.0	19.0	26.0	28.0	26.0	26.0
5	20.0	7.5	2.0	---	---	8.0	13.0	20.0	27.0	30.0	29.0	27.0
6	19.0	8.5	2.5	---	---	7.0	15.0	21.0	27.0	31.0	29.0	27.0
7	18.0	6.5	---	---	---	8.0	15.0	21.0	25.0	31.0	28.0	26.0
8	17.0	6.5	---	---	0.0	9.0	15.0	21.0	25.0	30.0	28.0	27.0
9	17.5	6.0	---	---	---	10.0	15.0	20.0	26.0	30.0	27.0	26.0
10	22.0	7.0	---	---	2.0	10.0	14.0	20.0	26.0	29.0	27.0	27.0
11	16.5	6.0	---	---	2.0	10.0	16.0	20.0	27.0	28.5	25.0	24.0
12	16.5	5.5	1.5	---	4.0	12.0	16.0	20.0	26.0	---	24.0	24.0
13	16.0	5.0	1.0	0.0	0.0	11.0	18.0	13.0	27.0	27.0	24.0	24.0
14	15.0	4.5	---	0.0	0.0	13.0	18.0	21.0	27.0	26.0	24.0	22.0
15	16.5	4.0	---	---	0.0	13.0	18.0	22.0	27.0	27.0	25.0	23.0
16	16.0	4.0	---	---	0.0	13.0	19.0	24.0	28.0	28.0	26.0	24.0
17	13.5	4.5	---	0.0	0.0	12.0	19.0	24.0	27.0	30.0	25.0	27.0
18	13.0	6.0	---	---	0.0	12.0	20.0	25.0	28.0	31.0	25.0	24.0
19	12.5	6.0	---	---	0.0	11.0	20.0	25.0	26.0	31.0	24.0	22.0
20	11.5	5.5	---	---	0.0	10.0	20.0	25.0	27.0	32.0	25.0	22.0
21	12.0	5.0	---	---	1.0	12.0	20.0	25.0	28.0	31.0	24.0	21.0
22	11.5	5.5	---	---	4.0	11.5	20.0	25.0	27.0	30.0	25.0	22.0
23	11.0	5.0	---	---	4.0	13.0	17.0	25.0	26.0	30.0	27.0	21.0
24	11.0	5.0	---	---	5.0	12.0	18.0	25.0	25.0	30.0	27.0	21.0
25	11.0	5.5	---	---	8.0	13.0	16.0	24.0	26.0	29.0	28.0	21.0
26	11.0	5.0	---	0.0	8.0	13.0	17.0	25.0	25.0	27.0	29.0	21.0
27	10.5	7.0	---	0.0	6.0	13.0	17.0	25.0	25.0	24.0	28.0	22.0
28	10.0	4.5	---	---	5.0	14.0	17.0	25.0	25.0	26.0	27.0	22.0
29	9.0	3.5	---	---	---	15.0	17.0	25.0	25.0	26.0	24.0	22.0
30	9.0	3.0	---	---	---	15.0	17.0	27.0	25.0	27.0	24.0	21.0
31	8.5	---	---	---	---	15.0	---	26.0	---	27.0	25.0	---
MEAN	14.5	6.0	2.5	0.0	2.5	11.0	17.0	22.5	26.0	28.5	26.0	24.0

WTR YR 1977 MEAN 17.5 MAX 32.0 MIN 0.0

05599500 BIG MUDDY RIVER AT MURPHYSBORO, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	OCT 18.76	NOV 15.76	DEC 13.76	JAN 17.77	FEB 8.77
TIME	1540	1300	1530	1100	1130
TOTAL CELLS/ML	82000	6800	8100	10000	1200
DIVERSITY: DIVISION	1.5	1.5	1.6	1.0	1.3
.CLASS	1.5	1.6	1.7	1.0	1.3
..ORDER	1.7	2.0	2.3	1.6	1.4
...FAMILY	2.0	2.1	2.6	1.5	1.9
....GENUS	2.7	2.7	3.3	1.5	2.1

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	*	0	--	-
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE										
....GOLENKINIA	--	-	--	-	*	0	--	-	*	0
....MICRACTINIUM	2600	3	--	-	--	-	--	-	17	1
...OOCYSTACEAE										
....ANKISTRODESMUS	1500	2	180	3	700	9	--	-	75	6
....CHODATELLA	*	0	--	-	*	0	--	-	--	-
....CLOSTERIOPSIS	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	5100	6	180	3	720	9	78	1	75	6
....KIRCHNERIELLA	630	1	--	-	80	1	--	-	17	1
....OOCYSTIS	--	-	--	-	120	1	--	-	--	-
....POLYEDRIOPSIS	--	-	--	-	--	-	130	1	--	-
....QUADRIGULA	--	-	--	-	--	-	--	-	--	-
....SELENASTRUM	*	0	--	-	--	-	*	0	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-	--	-
....WESTELLA	--	-	180	3	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	*	0	--	-	--	-	--	-	--	-
....CRUCIGENIA	4300	5	--	-	320	4	--	-	17	1
....SCENEDESMUS	860	1	540	8	520	6	--	-	25	2
....TETRASTRUM	3600	4	--	-	80	1	--	-	--	-
..TETRASPORALES										
...COCCOMYXACEAE										
....ELAKATOTHRIX	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	400	5	630	6	--	-
...VOLVOCACEAE										
....GONIUM	--	-	--	-	--	-	100	1	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....CLOSTERIUM	*	0	--	-	--	-	--	-	--	-
....COSMARIUM	--	-	--	-	--	-	--	-	--	-
....EUASTRUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

05599500 BIG MUDDY RIVER AT MURPHYSBORO, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	OCT 19,76		NOV 15,76		DEC 13,76		JAN 17,77		FEB 8,77	
TIME	1540		1300		1530		1100		1130	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..PENNALES										
...NAVICULACEAE										
....ENTOMONEIS	--	-	--	-	--	-	--	-	--	-
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	38000#	46	2500#	37	1200	15	500	5	55	4
....MELOSIRA	9400	11	940	14	400	5	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....COCCONEIS	--	-	--	-	--	-	--	-	8	1
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....SYNEDRA	--	-	--	-	*	0	--	-	13	1
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	--	-	*	0	--	-
...NAVICULACEAE										
....GYROSIGMA	--	-	--	-	--	-	--	-	--	-
....NAVICULA	--	-	--	-	--	-	*	0	21	2
....PINNULARIA	--	-	--	-	--	-	--	-	*	0
...NITZSCHIACEAE										
....NITZSCHIA	2400	3	45	1	*	0	100	1	84	7
...SURIRELLACEAE										
....SURIRELLA	--	-	45	1	*	0	--	-	29	2
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...CHROMULINACEAE										
....CHRYSOCOCCUS	--	-	45	1	--	-	--	-	--	-
...MALLOMONADACEAE										
....MALLOMONAS	--	-	--	-	--	-	--	-	--	-
.XANTHOPHYCEAE										
..HETEROCOCCALES										
...CHLOROTHECIACEAE										
....OPHIOCYTIUM	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	890	13	1100	13	630	6	--	-
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	--	-	--	-
....ANABAENOPSIS	--	-	--	-	--	-	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	--	-	--	-
....CYLINDROSPERMUM	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	11000	14	1200#	17	2200#	27	7700#	75	800#	64
....PHORMIDIUM	--	-	--	-	--	-	--	-	--	-
....SPIRULINA	--	-	--	-	--	-	--	-	--	-
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

05599500 BIG MUDDY RIVER AT MURPHYSBORO, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	OCT 18,76		NOV 15,76		DEC 13,76		JAN 17,77		FEB 8,77	
TIME	1540		1300		1530		1100		1130	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	78	1	--	-
...CRYPTOMONODACEAE										
....CRYPTOMONAS	860	1	45	1	*	0	52	1	--	-
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	1100	1	--	-	60	1	--	-	--	-
....LEPOCINCLIS	--	-	--	-	--	-	--	-	--	-
....PHACUS	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	*	0	45	1	80	1	78	1	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..GYMNODINIALES										
...GYMNODINIACEAE										
....GYMNODINIUM	--	-	--	-	--	-	--	-	--	-
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	*	0	--	-
...PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

05599500 BIG MUDDY RIVER AT MURPHYSBORO, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	MAY 2,77		JUN 1,77		JUL 11,77		AUG 16,77		SEP 12,77	
TIME	1400		1000		1545		1400		1200	
TOTAL CELLS/ML	78000		51000		53000		8300		44000	
DIVERSITY: DIVISION	0.9		1.6		1.1		1.0		1.1	
.CLASS	0.9		1.7		1.1		1.0		1.1	
..ORDER	1.4		2.1		2.0		1.7		1.6	
...FAMILY	1.5		2.6		2.2		2.6		2.3	
....GENUS	1.8		3.1		2.8		2.9		3.1	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	--	-	--	-	4700	11
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	770	1	--	-	--	-
...MICRACTINIACEAE										
....GOLENKINIA	--	-	*	0	--	-	--	-	--	-
....MICRACTINIUM	610	1	1400	3	--	-	94	1	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	460	1	270	1	530	1	81	1	*	0
....CHODATELLA	*	0	*	0	--	-	--	-	--	-
....CLOSTERIOPSIS	--	-	--	-	--	-	*	0	--	-
....DICTYOSPHAERIUM	2100	3	5900	12	1300	2	67	1	1500	3
....KIRCHNERIELLA	--	-	480	1	--	-	--	-	*	0
....OOCYSTIS	*	0	--	-	*	0	54	1	*	0
....POLYDRIOPSIS	--	-	--	-	--	-	--	-	--	-
....QUADRIGULA	--	-	--	-	*	0	--	-	--	-
....SELENASTRUM	--	-	340	1	*	0	54	1	--	-
....TETRAEDRON	--	-	*	0	--	-	--	-	--	-
....WESTELLA	--	-	--	-	--	-	54	1	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	*	0	1200	2	220	3	1000	2
....CRUCIGENIA	3700	5	13000#	25	1100	2	--	-	--	-
....SCENEDESMUS	920	1	1600	3	1300	2	54	1	1800	4
....TETRASTRUM	1200	2	270	1	*	0	--	-	*	0
..TETRASPORALES										
...COCCOMYXACEAE										
....ELAKATOTHRIX	--	-	*	0	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	*	0	340	1	*	0	81	1	--	-
...VOLVOCACEAE										
....GONIUM	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....CLOSTERIUM	--	-	--	-	--	-	--	-	--	-
....COSMARIUM	--	-	*	0	--	-	--	-	530	1
....EUASTRUM	--	-	*	0	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

05599500 BIG MUDDY RIVER AT MURPHYSBORO, IL--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	MAY 2,77		JUN 1,77		JUL 11,77		AUG 16,77		SEP 12,77	
TIME	1400		1000		1545		1400		1200	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..PENNALES										
...NAVICULACEAE										
....ENTOMONEIS	*	0	*	0	--	-	--	-	--	-
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	2800	4	3000	6	2400	5	160	2	370	1
....MELOSIRA	1100	1	3500	7	2500	5	620	8	1400	3
....STEPHANODISCUS	--	-	--	-	--	-	--	-	*	0
..PENNALES										
...ACHNANTHACEAE										
....COCCONEIS	--	-	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	*	0	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....SYNEDRA	--	-	--	-	--	-	--	-	*	0
...GOMPHONEMATACEAE										
....GOMPHONEMA	*	0	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....GYROSIGMA	--	-	--	-	--	-	*	0	--	-
....NAVICULA	--	-	*	0	*	0	54	1	--	-
....PINNULARIA	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	*	0	1200	2	820	2	120	1	--	-
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...CHROMULINACEAE										
....CHRYSOCOCCUS	--	-	--	-	--	-	--	-	--	-
...MALLOMONADACEAE										
....MALLOMONAS	--	-	--	-	*	0	--	-	--	-
.XANTHOPHYCEAE										
..HETEROCOCCALES										
...CHLOROTHECIACEAE										
....OPHIOCYTIUM	*	0	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	4100	5	--	-	4800	9	54	1	1900	4
....ANACYSTIS	2200	3	2700	5	10000#	19	1300#	16	2500	6
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	730	1	500	6	1500	3
....ANABAENOPSIS	--	-	--	-	--	-	130	2	--	-
....APHANIZOMENON	--	-	--	-	--	-	300	4	--	-
....CYLINDROSPERMUM	--	-	--	-	--	-	81	1	3700	8
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	480	1	--	-	--	-
....OSCILLATORIA	57000#	73	15000#	30	23000#	44	3900#	47	--	-
....PHORMIDIUM	--	-	--	-	--	-	--	-	18000#	41
....SPIRULINA	--	-	--	-	--	-	--	-	3800	9
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	*	0	230	3	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	MAY 2,77 1400		JUN 1,77 1000		JUL 11,77 1545		AUG 16,77 1400		SEP 12,77 1200	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONODACEAE										
....CRYPTOMONAS	*	0	*	0	*	0	--	-	--	-
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	340	1	*	0	*	0	--	-
....LEPOCINCLIS	--	-	*	0	--	-	--	-	--	-
....PHACUS	*	0	340	1	*	0	--	-	--	-
....TRACHELOMONAS	*	0	410	1	*	0	*	0	*	0
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..GYMNODINIALES										
...GYMNODINIACEAE										
....GYMNODINIUM	--	-	--	-	--	-	*	0	--	-
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	--	-	--	-
...PERIDINIACEAE										
....PERIDINIUM	--	-	340	1	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON
(Sampling method - Polyethylene strip)

Date	Length of exposure (days)	Biomass (g/m²) Dry weight	Biomass (g/m²) Ash weight	Chlorophyll a (mg/m²)	Chlorophyll b (mg/m²)	Biomass pigment ratio
DEC 13	29	923	769	0.211	0.076	730
JUN 01	30	9530	6380	.693	.069	45650
SEP 12	27	17400	15300	1.59	.938	1321

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO

LOCATION.--Lat 38°37'44", long 90°10'47", Hydrologic Unit 07140101, on downstream side of west pier of Eads Bridge at St. Louis, 15 mi (24.1 km) downstream from Missouri River, 19.2 mi (30.9 km) upstream from Meramec River, and at mile 180.0 (289.6 km) above the Ohio River.

DRAINAGE AREA,--697,000 mi² (1,805,000 km²), approximately.

PERIOD OF RECORD.--Discharge: January 1861 to current year. Monthly discharge only for some periods, published in WSP 1311.

Gage heights: March 1933 to current year in reports of Geological Survey. Since January 1861 in reports of Mississippi River Commission. Since January 1890 in reports of National Weather Service.

REVISED RECORDS.--WDR IL-76: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 379.94 ft (115.806 m) above mean sea level. Prior to May 5, 1934, nonrecording gage 0.4 mi (0.6 km) downstream and May 5, 1934, to Dec. 9, 1952, water-stage recorder at site 20 ft (6 m) downstream at present datum.

REMARKS.--Records excellent. Natural flow of stream affected by many reservoirs and navigation dams in upper Mississippi River basin and by many reservoirs and diversions for irrigation in Missouri River basin.

AVERAGE DISCHARGE.--116 years, 176,200 ft³/s (4,990 m³/s), 127,700,000 acre-ft/yr (157 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,019,000 ft³/s (28,900 m³/s) June 10, 11, 1903, gage height, 38.00 ft (11.582 m); maximum gage height, 43.23 ft (13.176 m) Apr. 28, 1973; minimum daily discharge, 18,000 ft³/s (510 m³/s) Dec. 21-23, 1863; minimum gage height, -6.11 ft (-1.862 m) Jan. 16, 1940.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 27, 1844, reached a stage of 41.32 ft (12.594 m), from floodmarks, discharge, 1,300,000 ft³/s (36,800 m³/s), computed by Corps of Engineers. Flood in April 1785 may have reached a stage of 42.0 ft (12.80 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 339,000 ft³/s (9,600 m³/s) Sept. 16, gage height, 20.67 ft (6.300 m); minimum, 42,600 ft³/s (1,210 m³/s) Jan. 20, gage height, -3.73 ft (-1.137 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64100	70600	63300	51000	44500	121000	200000	114000	81000	177000	73400	130000
2	66500	70400	65000	50000	47900	93400	186000	112000	85100	184000	65800	158000
3	63800	72300	67500	50000	52200	85600	169000	114000	102000	193000	63200	151000
4	63700	74200	65000	51000	53400	90800	150000	128000	107000	192000	66900	183000
5	66500	72400	64400	52000	52000	92700	141000	126000	112000	174000	69500	240000
6	71700	72000	64100	53000	51000	84300	143000	160000	116000	156000	74500	247000
7	73500	74600	67700	54000	50000	83100	140000	203000	116000	148000	81100	249000
8	75300	72500	68800	53000	49000	84400	139000	220000	110000	141000	109000	241000
9	75600	70400	67100	52000	48000	81500	143000	206000	99000	126000	153000	228000
10	76800	68700	65300	50000	47400	76800	144000	169000	96300	124000	221000	206000
11	72700	68000	62400	49000	48000	73200	140000	146000	119000	130000	205000	186000
12	66800	66600	61200	48000	52500	124000	123000	136000	112000	127000	183000	178000
13	65200	63700	63500	45200	64500	153000	106000	131000	87700	128000	161000	186000
14	64400	63800	59000	44000	76200	137000	105000	131000	94300	131000	161000	226000
15	63800	67700	55900	46000	82100	129000	105000	125000	85500	138000	148000	303000
16	63700	70500	54900	50000	83100	128000	96000	113000	72100	122000	146000	337000
17	64900	71600	55700	48000	80700	115000	92200	108000	70300	104000	122000	328000
18	64700	71200	56800	46000	74200	116000	87100	103000	71300	95000	107000	309000
19	64500	70000	58000	45000	68100	112000	85900	103000	76300	98100	126000	285000
20	65600	69400	61200	44500	92600	123000	93800	103000	83200	118000	121000	267000
21	68900	68900	62300	44000	103000	124000	98600	101000	84500	160000	128000	255000
22	71500	69000	61200	46000	89100	125000	113000	99000	96600	123000	113000	236000
23	72500	68800	60300	48000	86700	111000	117000	96900	143000	92600	105000	213000
24	83600	68000	59800	50000	94900	106000	118000	109000	178000	75700	108000	190000
25	77800	69200	57800	49000	93500	103000	130000	119000	187000	78800	102000	193000
26	77700	73000	55700	48000	107000	99100	127000	115000	198000	75000	96900	182000
27	76500	78300	54500	47000	136000	93600	121000	105000	198000	77700	92000	176000
28	73400	76900	54100	46000	139000	126000	120000	101000	188000	81700	91900	189000
29	73100	66800	54200	45000	---	204000	110000	102000	185000	90300	110000	192000
30	73200	63500	53100	44000	---	232000	112000	95900	183000	81500	118000	185000
31	71300	---	52000	43500	---	212000	---	86500	---	76600	123000	---
TOTAL	2178300	2103000	1871800	1492200	2066600	3639500	3755600	3881300	3537200	3799000	3645200	6649000
MEAN	70270	70100	60380	48140	73810	117400	125200	125200	117900	122500	117600	221600
MAX	83600	78300	68800	54000	139000	232000	200000	220000	198000	193000	221000	337000
MIN	63700	63500	52000	43500	44500	73200	85900	86500	70300	75000	63200	130000
AC-FT	4321000	4171000	3713000	2960000	4099000	7219000	7449000	7699000	7016000	7535000	7230000	13190000

CAL YR 1976 TOTAL 50243600 MEAN 137300 MAX 447000 MIN 52000 AC-FT 99660000
WTR YR 1977 TOTAL 38618700 MEAN 105800 MAX 337000 MIN 43500 AC-FT 76600000

07020125 MISSISSIPPI RIVER AT KELLOGG, IL

LOCATION.--Lat 38°00'36", long 90°03'29", T.6 S., R.9 W., Randolph County, Hydrologic Unit 07140101, near left bank on barge loading dock, 0.2 mi (0.3 km) upstream from Little Rock Landing Ferry, 3.1 mi (5.0 km) southwest of Modoc, and 7.4 mi (11.9 km) south of Prairie du Rocher, and at mile 125.5 (201.9 km) upstream from Ohio River.

DRAINAGE AREA.--706,271 mi² (1,829,242 km²).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1973 to September 1977 (discontinued).

INSTRUMENTATION.--Temperature recorder since October 1973.

REMARKS.--Records represent water temperature at monitor probe within 0.5°C. Temperature at the sensor was compared with the average for the river by temperature cross-section on Apr. 28. Monitor malfunction Jan. 4 to Feb. 10, June 2-23.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 32.5°C July 18-21, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 32.5°C July 18-21; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.5	19.5	20.0	10.5	9.5	10.0	3.0	2.5	2.5	0.0	0.0	0.0
2	21.0	20.0	20.5	10.5	10.0	10.0	2.5	2.0	2.5	0.0	0.0	0.0
3	21.0	20.0	20.5	10.0	9.5	10.0	2.0	1.5	2.0	0.0	0.0	0.0
4	20.5	20.0	20.0	9.5	8.5	9.0	2.0	1.5	2.0	---	---	---
5	20.0	19.0	20.0	9.0	8.5	8.5	2.0	1.5	1.5	---	---	---
6	18.5	18.0	18.5	9.0	8.0	8.5	2.0	1.5	1.5	---	---	---
7	18.0	17.0	17.5	8.5	8.0	8.5	1.5	1.0	1.5	---	---	---
8	17.0	16.5	17.0	8.0	7.5	7.5	1.0	0.5	1.0	---	---	---
9	17.0	16.5	16.5	8.0	7.0	7.5	1.0	0.5	0.5	---	---	---
10	17.0	16.0	16.5	8.0	7.5	7.5	1.0	0.5	0.5	---	---	---
11	17.0	16.0	16.5	7.5	7.0	7.5	0.5	0.0	0.5	---	---	---
12	17.5	16.0	16.5	7.0	6.5	6.5	0.5	0.0	0.5	---	---	---
13	17.5	16.5	17.0	6.5	6.0	6.5	1.0	0.5	0.5	---	---	---
14	17.0	16.5	16.5	6.0	6.0	6.0	1.0	0.0	0.5	---	---	---
15	17.0	16.5	16.5	6.5	6.0	6.0	1.5	0.5	1.0	---	---	---
16	16.5	15.5	16.0	6.0	5.5	6.0	2.0	1.0	1.5	---	---	---
17	15.5	14.5	15.0	6.0	5.5	6.0	2.0	1.0	1.5	---	---	---
18	14.5	14.0	14.5	6.5	6.0	6.0	2.0	1.0	1.5	---	---	---
19	14.0	13.5	14.0	6.5	6.0	6.5	2.0	1.0	1.5	---	---	---
20	13.5	13.0	13.0	6.5	6.0	6.5	1.5	0.5	1.5	---	---	---
21	13.0	12.5	13.0	6.0	6.0	6.0	0.5	0.0	0.5	---	---	---
22	12.5	12.0	12.5	5.5	5.0	5.5	0.5	0.0	0.0	---	---	---
23	12.5	12.0	12.0	5.0	5.0	5.0	0.5	0.0	0.0	---	---	---
24	12.5	12.0	12.5	5.0	4.5	5.0	0.5	0.0	0.0	---	---	---
25	12.0	11.5	12.0	6.0	5.0	5.5	1.0	0.5	1.0	---	---	---
26	12.0	11.0	11.5	6.5	6.0	6.0	1.5	0.5	1.0	---	---	---
27	11.0	10.5	11.0	6.5	5.5	6.0	1.5	1.0	1.5	---	---	---
28	11.0	10.5	10.5	5.0	4.0	4.5	1.5	1.0	1.0	---	---	---
29	10.5	10.0	10.0	3.5	3.0	3.5	1.0	0.5	0.5	---	---	---
30	10.0	10.0	10.0	3.0	2.5	3.0	0.5	0.0	0.0	---	---	---
31	10.5	10.0	10.0	---	---	---	0.0	0.0	0.0	---	---	---
MONTH	21.0	10.0	15.0	10.5	2.5	6.5	3.0	0.0	1.0	---	---	---

07020125 MISSISSIPPI RIVER AT KELLOGG, IL--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	3.5	3.0	3.0	12.5	12.0	12.0	18.5	18.0	18.0
2	---	---	---	3.0	3.0	3.0	13.0	12.0	12.5	18.5	18.0	18.0
3	---	---	---	3.5	3.0	3.5	12.5	12.5	12.5	18.5	18.0	18.0
4	---	---	---	4.0	3.5	3.5	13.0	12.5	12.5	19.5	18.0	19.0
5	---	---	---	4.5	3.5	4.0	12.5	11.0	11.5	20.5	19.0	19.5
6	---	---	---	4.5	3.5	4.0	11.0	10.5	11.0	21.0	20.0	20.5
7	---	---	---	5.0	4.0	4.5	11.5	10.5	11.0	20.5	20.0	20.5
8	---	---	---	6.0	4.5	5.0	12.0	11.0	11.0	20.5	20.0	20.5
9	---	---	---	6.5	5.5	6.0	12.0	11.0	11.5	20.5	20.0	20.0
10	---	---	---	7.0	6.0	6.5	13.0	12.0	12.5	20.5	19.5	20.0
11	2.5	1.5	2.0	8.0	7.0	7.5	14.0	12.5	13.0	20.5	19.5	20.0
12	2.0	1.5	2.0	8.5	8.0	8.5	14.5	13.5	14.0	21.0	19.5	20.5
13	2.0	1.0	1.5	8.5	8.0	8.0	15.5	14.0	14.5	21.0	20.0	20.5
14	1.5	1.0	1.5	9.0	8.0	8.5	16.0	15.0	15.5	21.5	20.5	21.0
15	1.0	0.5	1.0	10.0	9.0	9.5	17.0	16.0	16.5	22.0	21.0	21.5
16	1.0	0.5	1.0	10.0	9.0	9.5	17.5	16.5	17.0	22.5	21.5	22.0
17	1.5	0.5	1.0	9.5	9.5	9.5	18.0	17.0	17.5	23.5	22.0	22.5
18	2.0	1.0	1.5	10.0	9.5	9.5	18.0	17.5	18.0	24.0	22.5	23.5
19	2.0	1.5	2.0	9.5	9.5	9.5	18.5	18.0	18.0	24.5	23.0	24.0
20	2.0	1.5	1.5	9.5	9.0	9.5	19.0	18.0	18.5	25.0	24.0	24.5
21	1.5	0.5	1.0	10.0	9.0	9.5	19.0	18.5	19.0	25.0	24.0	24.5
22	2.5	0.5	1.5	9.5	9.0	9.0	19.0	18.5	19.0	25.0	24.0	24.5
23	3.5	2.5	3.0	9.5	9.0	9.5	18.5	18.0	18.5	25.0	24.0	24.5
24	4.0	3.5	3.5	10.0	9.0	9.5	18.5	17.5	18.0	25.5	24.0	24.5
25	3.5	3.0	3.5	10.0	9.0	9.5	18.0	17.5	17.5	25.5	24.5	25.0
26	3.5	3.0	3.5	10.0	9.5	9.5	18.0	17.0	17.5	25.5	25.0	25.0
27	3.0	3.0	3.0	10.5	10.0	10.0	18.0	17.0	17.5	26.0	25.0	25.5
28	3.5	3.0	3.0	12.0	10.5	11.0	18.5	17.5	18.0	26.0	25.0	25.5
29	---	---	---	12.0	11.5	12.0	18.5	18.0	18.0	26.5	25.5	25.5
30	---	---	---	12.5	12.0	12.5	18.5	18.0	18.0	26.5	25.5	26.0
31	---	---	---	12.5	12.0	12.5	---	---	---	26.0	25.0	25.5
MONTH	4.0	0.5	2.0	12.5	3.0	8.0	19.0	10.5	15.5	26.5	18.0	22.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.0	25.5	25.5	26.5	26.0	26.0	29.5	29.0	29.0	27.0	26.0	26.5
2	---	---	---	27.0	26.0	26.5	29.0	28.0	28.5	27.5	26.5	27.0
3	---	---	---	27.5	26.5	27.0	28.5	27.5	28.0	27.5	26.5	27.0
4	---	---	---	28.0	27.0	27.5	28.5	27.5	28.0	27.0	26.5	27.0
5	---	---	---	28.5	27.5	28.0	28.5	27.5	28.0	27.0	26.0	26.5
6	---	---	---	29.0	28.0	28.5	29.0	28.0	28.5	26.0	25.5	25.5
7	---	---	---	29.5	28.5	29.0	29.0	28.0	28.5	25.5	25.5	25.5
8	---	---	---	30.5	29.0	29.5	28.5	28.0	28.5	25.5	25.0	25.5
9	---	---	---	30.5	29.5	30.0	28.0	27.5	27.5	25.5	25.0	25.5
10	---	---	---	30.0	29.5	30.0	27.5	27.0	27.0	25.0	25.0	25.0
11	---	---	---	29.5	29.0	29.0	26.5	26.5	26.5	25.0	24.0	24.5
12	---	---	---	29.5	28.5	29.0	26.0	25.5	25.5	24.0	24.0	24.0
13	---	---	---	30.5	29.0	29.5	26.0	25.0	25.5	24.0	23.5	23.5
14	---	---	---	31.5	30.0	30.5	26.5	25.5	26.0	23.5	22.5	23.0
15	---	---	---	31.5	30.5	31.0	27.0	26.0	26.5	22.5	22.5	22.5
16	---	---	---	31.5	30.5	31.0	27.0	26.5	26.5	22.5	21.5	22.0
17	---	---	---	32.0	31.0	31.5	27.0	26.5	26.5	21.5	21.5	21.5
18	---	---	---	32.5	31.5	32.0	27.0	26.0	26.5	21.5	21.0	21.0
19	---	---	---	32.5	31.5	32.0	26.0	25.5	26.0	21.5	21.0	21.0
20	---	---	---	32.5	31.5	32.0	26.0	25.0	25.5	21.5	21.0	21.0
21	---	---	---	32.5	32.0	32.0	26.0	25.5	25.5	21.0	21.0	21.0
22	---	---	---	32.0	31.0	31.5	26.5	25.5	26.0	21.0	20.5	21.0
23	---	---	---	31.5	30.5	31.0	26.0	25.5	26.0	21.0	21.0	21.0
24	26.5	26.0	26.0	31.5	30.5	31.0	25.5	25.0	25.5	21.5	21.0	21.5
25	26.0	25.5	26.0	31.0	30.0	30.5	25.5	25.0	25.0	22.0	21.5	21.5
26	25.5	25.0	25.5	30.0	29.5	29.5	26.0	25.0	25.5	22.0	21.5	22.0
27	25.5	25.0	25.5	29.5	28.5	29.0	26.5	25.5	26.0	22.0	21.5	22.0
28	25.5	25.0	25.0	29.0	28.5	28.5	26.5	25.5	26.0	22.0	21.5	21.5
29	26.0	25.0	25.5	29.0	28.0	28.5	26.0	25.5	26.0	21.5	21.0	21.0
30	26.5	26.0	26.0	29.0	28.5	28.5	26.5	25.5	26.0	21.0	21.0	21.0
31	---	---	---	30.0	29.0	29.5	27.0	25.5	26.0	---	---	---
MONTH	26.5	25.0	25.5	32.5	26.0	29.5	29.5	25.0	26.5	27.5	20.5	23.5
YEAR	32.5	0.0	15.5									

07020500 MISSISSIPPI RIVER AT CHESTER, IL

LOCATION.--Lat 37°54'10", long 89°51'10", in SW¼ sec.24, T.7 S., R.7 W., third principal meridian, Randolph County, Hydrologic Unit 07140105, on downstream side of left pier of main truss of highway bridge at Chester, 8.1 mi (13.0 km) downstream from Kaskaskia River, and at mile 109.9 (176.8 km) above Ohio River.

DRAINAGE AREA.--708,600 mi^2 (1,835,000 km^2), approximately.

PERIOD OF RECORD.--Discharge: October 1927 to current year in reports of Geological Survey. Monthly discharge only for some periods, published in WSP 1311. Since August 1873, results of discharge measurements in reports of Mississippi River Commission.

Gage heights: July 1942 to current year in reports of Geological Survey. Since May 1891, in reports of Mississippi River Commission and National Weather Service.

REVISED RECORDS.--WDR IL-76: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 341.05 ft (103.952 m) above mean sea level. Prior to Feb. 1, 1962, nonrecording gage 0.4 mi (0.6 km) downstream at present datum.

REMARKS.--Records excellent. Natural flow of stream affected by many reservoirs and navigation dams in upper Mississippi River basin and by many reservoirs and diversions for irrigation in Missouri River basin.

AVERAGE DISCHARGE.--50 years, 181,600 ft^3/s (5,143 m^3/s), 131,600,000 acre-ft/yr (162 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge determined, 886,000 ft^3/s (25,100 m^3/s) July 3, 1947, Apr. 30, 1973 (discharge including unmeasured overflow was greater May 24, 1943; maximum gage height, 43.32 ft (13.204 m) Apr. 30, 1973; minimum daily discharge, 30,000 ft^3/s (850 m^3/s) Dec. 12, 1937; minimum gage height, -4.10 ft (-1.250 m) Jan. 2, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 30, 1844, reached a stage of 39.8 ft (12.13 m) and a discharge of 1,350,000 ft^3/s (38,200 m^3/s) computed by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 339,000 ft^3/s (9,600 m^3/s) Sept. 17, gage height, 21.99 ft (6.703 m); minimum daily discharge, 45,000 ft^3/s (1,270 m^3/s) Jan. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70600	73300	65000	52000	48000	134000	260000	114000	89100	193000	79500	123000
2	67900	72800	64100	51000	50000	117000	240000	115000	84700	189000	75100	136000
3	65000	72500	67200	51000	52000	98200	217000	114000	89200	199000	67100	151000
4	62700	74400	69400	52000	53000	93100	191000	116000	101000	210000	64200	154000
5	63500	76500	67600	53000	54000	94800	167000	122000	106000	202000	66900	201000
6	68100	75300	67000	54000	53000	95700	155000	129000	110000	182000	70000	244000
7	74300	74700	67500	55000	52000	90400	153000	174000	114000	163000	74100	251000
8	76300	77100	71600	56000	51000	88600	149000	220000	114000	152000	81900	246000
9	79700	75500	72800	54000	50200	87800	148000	227000	108000	143000	106000	239000
10	82300	72400	70500	52000	48000	84700	151000	204000	101000	131000	163000	223000
11	82300	70200	68200	50000	48100	80800	151000	168000	101000	136000	218000	197000
12	77800	69100	65100	49000	50000	105000	143000	150000	115000	137000	207000	178000
13	70200	67100	64000	48000	57600	158000	127000	139000	109000	132000	186000	170000
14	67600	64000	65600	47000	68800	169000	113000	135000	95300	130000	162000	187000
15	65600	64000	61300	46000	80300	157000	111000	133000	95900	134000	160000	245000
16	64200	68400	55700	50000	86600	146000	108000	126000	88700	136000	147000	322000
17	63500	72100	53100	53000	86200	140000	101000	117000	78100	122000	144000	337000
18	64200	74100	55000	52000	83100	127000	96900	112000	75400	106000	118000	321000
19	64000	73500	56000	51000	75900	125000	93300	107000	75700	99200	118000	298000
20	63600	71900	58300	50000	71400	123000	93300	105000	80800	101000	126000	276000
21	64700	71600	61900	49000	94700	129000	97500	104000	86300	116000	126000	258000
22	68200	70500	62900	48000	103000	128000	103000	101000	91700	129000	129000	245000
23	71900	69900	62400	47000	92800	127000	115000	98200	103000	117000	117000	228000
24	75600	69900	61600	48000	91800	116000	116000	96900	149000	94000	116000	201000
25	85300	70000	61100	50000	96200	115000	122000	105000	182000	86900	115000	193000
26	80700	72000	58500	50000	98500	112000	128000	111000	199000	88500	110000	192000
27	78000	77000	56100	49000	115000	109000	126000	109000	211000	80300	105000	184000
28	77700	82000	55300	48000	134000	152000	123000	103000	209000	79300	99700	187000
29	74800	80000	54400	47000	---	233000	120000	101000	202000	85500	101000	197000
30	75100	72000	54300	46000	---	277000	114000	101000	198000	89900	114000	195000
31	75800	---	54000	45000	---	275000	---	96300	---	84500	120000	---
TOTAL	2221200	2174300	1927500	1553000	2045200	4088100	4133000	3953400	3562900	4048100	3686500	6577000
MEAN	71650	72480	62180	50100	73040	131900	137800	127500	118800	130600	118900	219200
MAX	85300	82000	72800	56000	134000	277000	260000	227000	211000	210000	218000	337000
MIN	62700	64000	53100	45000	48000	80800	93300	96300	75400	79300	64200	123000
AC-FT	4406000	4313000	3823000	3080000	4057000	8109000	8198000	7842000	7067000	8029000	7312000	13050000

CAL YR 1976 TOTAL 51556000 MEAN 140900 MAX 451000 MIN 53100 AC-FT 102300000
WTR YR 1977 TOTAL 39970200 MEAN 109500 MAX 337000 MIN 45000 AC-FT 79280000

07022000 MISSISSIPPI RIVER AT THEBES, IL

LOCATION.--Lat 37°13'00", long 89°27'50", in NW¼ sec.17, T.15 S., R.3 W., Alexander County, Hydrologic Unit 07140105, near center span on downstream side of railroad bridge at Thebes, 5.0 mi (8.0 km) downstream from Headwater Diversion Channel, and at mile 43.7 (70.3 km) above Ohio River.

DRAINAGE AREA.--713,200 mi² (1,847,000 km²), approximately.

PERIOD OF RECORD.--Discharge: October 1932 to current year. Monthly discharge only for some periods, published in WSP 1311. Prior to April 1941, published as "at Cape Girardeau, Mo.".
Gage heights: March 1933 to February 1938 and October 1939 to current year in reports of Geological Survey (prior to April 1941, published as "at Cape Girardeau, Mo."). Since November 1878, under name of "at Grays Point" in files of St. Louis District office of Corps of Engineers. January 1879 to May 1896, published as "at Grays Point" and since May 1896, published as "at Cape Girardeau" in reports of Mississippi River Commission. February 1891 to February 1894 and since 1904, published as "at Cape Girardeau" in reports of National Weather Service.

REVISED RECORDS.--WSP 1341: 1844(M). WDR IL-76: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Mar. 17, 1933, to Dec. 21, 1934, nonrecording gage and Dec. 22, 1934, to Apr. 4, 1941, water-stage recorder, at site 8.2 mi (13.2 km) upstream at datum 4.65 ft (1.417 m) higher. Apr. 5, 1941, to Sept. 30, 1941, nonrecording gage at present site and datum and Oct. 1, 1941, to Oct. 11, 1943, at datum 0.07 ft (0.021 m) higher. Prior to Apr. 5, 1941, various auxiliary gages used. Since Oct. 1, 1943, former gage at Cape Girardeau used as auxiliary gage.

REMARKS.--Records excellent except those for period of ice effect, which are poor. Natural flow of stream affected by many reservoirs and navigation dams in upper Mississippi River basin and by many reservoirs and diversions for irrigation in Missouri River basin.

AVERAGE DISCHARGE.--45 years, 186,500 ft³/s (5,282 m³/s), 135,100,100 acre-ft/yr (167 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 893,000 ft³/s (25,300 m³/s) May 27, 1943, elevation, 340.33 ft (103.733 m), present datum; maximum elevation, 343.43 ft (140.678 m) Apr. 30, 1973; minimum discharge, 23,400 ft³/s (663 m³/s) Dec. 13, 1937, at site then in use; minimum elevation, 301.67 ft (91.949 m) Jan. 2, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 4, 1844, reached an elevation of 345.14 ft (105.199 m), present datum, at Grays Point, from floodmarks, discharge, 1,375,000 ft³/s (38,900 m³/s), computed by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 337,000 ft³/s (9,540 m³/s) Sept. 18; maximum elevation, 325.64 ft (99.255 m) Mar. 31; minimum daily discharge, 46,000 ft³/s (1,300 m³/s) Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76400	82400	71700	53800	46000	138000	298000	120000	96800	207000	87100	122000
2	75400	80900	67500	53400	50000	135000	278000	120000	89500	199000	82900	125000
3	72500	79600	66700	52000	52000	119000	253000	119000	86300	198000	78900	140000
4	69300	78900	69200	53600	53000	106000	227000	118000	91500	207000	72200	152000
5	67000	79800	70500	53800	54000	101000	200000	120000	102000	212000	70200	166000
6	67400	80700	69100	54500	55000	103000	181000	123000	107000	199000	72600	222000
7	71200	79100	68600	55200	54000	104000	174000	135000	111000	179000	75300	250000
8	75300	78300	69300	55600	52000	99600	171000	184000	114000	160000	79200	251000
9	77600	78500	72200	55900	51000	96700	169000	224000	113000	151000	90200	246000
10	80000	76500	73000	54000	50000	93300	168000	222000	107000	142000	121000	235000
11	81300	74300	72000	53000	49000	91300	168000	197000	101000	132000	194000	216000
12	80700	72200	70200	52000	52000	99000	162000	169000	105000	139000	230000	192000
13	76500	70900	67300	51000	60000	132000	146000	151000	117000	137000	216000	177000
14	71000	68800	67200	50000	68000	172000	134000	140000	109000	134000	192000	174000
15	68800	66300	67900	49000	75600	176000	126000	136000	99000	133000	172000	201000
16	67500	67000	64200	48000	84800	165000	123000	133000	90200	138000	165000	268000
17	66800	71000	60000	50000	88500	155000	116000	126000	89400	136000	156000	326000
18	66800	74500	58400	54000	87600	146000	106000	119000	80200	122000	143000	333000
19	67600	76400	58300	53000	83600	136000	98500	114000	76700	107000	122000	321000
20	67700	76300	58100	52000	77100	134000	94200	110000	76300	101000	120000	295000
21	67500	75600	58600	50000	75800	133000	93700	108000	80300	105000	125000	275000
22	68700	75100	60900	49800	96000	136000	99400	107000	84500	122000	127000	262000
23	72400	75000	62200	48200	101000	132000	108000	105000	91000	130000	127000	247000
24	76300	74800	61700	50000	95200	125000	118000	104000	109000	116000	118000	230000
25	80300	74300	61300	51000	93600	116000	121000	104000	158000	97100	119000	207000
26	85900	74500	60700	52000	96600	111000	128000	112000	190000	95000	117000	200000
27	82900	76000	58900	51000	104000	113000	133000	116000	212000	91300	112000	197000
28	81300	80400	57200	50000	123000	189000	131000	113000	219000	85000	106000	188000
29	81300	83600	56300	49000	---	254000	130000	107000	215000	83400	104000	192000
30	80500	80000	55800	48000	---	302000	125000	104000	208000	90000	108000	199000
31	81500	---	55200	47000	---	315000	---	103000	---	91700	117000	---
TOTAL	2305400	2281700	1990300	1599800	2028400	4427900	4579800	4063000	3537700	4239500	3819400	6609000
MEAN	74370	76050	64200	51610	72440	142800	152700	131100	117900	136800	123200	220300
MAX	85900	83600	73000	55900	123000	315000	298000	224000	219000	212000	230000	333000
MIN	66800	66300	55200	47000	46000	91300	93700	103000	76300	83400	70200	122000
AC-FT	4573000	4526000	3948000	3173000	4023000	8783000	9084000	8059000	7017000	8409000	7576000	13110000

CAL YR 1976 TOTAL 54059500 MEAN 147700 MAX 466000 MIN 55200 AC-FT 107200000
WTR YR 1977 TOTAL 41481900 MEAN 113600 MAX 333000 MIN 46000 AC-FT 82280000

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited stream-flow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are useable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in time of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in the first table. It is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in the second table.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Wabash River basin					
03336100	Big Four Ditch tributary near Paxton, IL	Lat 40°27'15", long 88°09'10", in NW¼ sec.14, T.23 N., R.9 E., Ford County, at culvert on State Highway 9, 2.8 miles west of Paxton.	1.05	1956-57++, 1958-77	08-07-77	14.58	214
03336500	Bluegrass Creek at Potomac, IL	Lat 40°19'19", long 87°48'02", in SE¼NE¼ sec.34, T.22 N., R.13 W., Vermilion County, on left bank at downstream side of highway bridge, 1.0 mile north of Potomac and 2.0 miles upstream from mouth. Datum of gage is 655.37 ft.	35.0	1950-71**, 1972-77	08-07-77	9.84	1,730
03338000	Salt Fork near Homer, IL	Lat 40°03'20", long 87°57'30", in SW¼SW¼ sec.33, T.19 N., R.14 W., Champaign County, at bridge on State Highway 49, 1.1 miles north of Homer. Datum of gage is 621.00 ft.	340	1945-58**, 1959-77	08-07-77	9.39	2,520
03338100	Salt Fork tributary near Catlin, IL	Lat 40°03'55", long 87°46'05", in SE¼NE¼ sec.36, T.19 N., R.13 W., Vermilion County, at culvert on county road, 3.5 miles west of Catlin.	2.20	1959-68, 1969-74++, 1975-77	05-06-77	11.53	83
03341900	Raccoon Creek tributary near Annapolis, IL	Lat 39°08'36", long 87°41'10", in NE¼NE¼ sec.13, T.8 N., R.12 W., Crawford County, at culvert on Annapolis road, 6.6 miles east of Annapolis.	.04	1956, 1957-59++, 1960-77	09-24-77	14.37	12
03344250	Embarras River tributary near Greenup, IL	Lat 39°14'00", long 88°09'20", in SW¼ sec.12, T.9 N., R.9 E., Cumberland County, at culvert on State Highway 130, 1.0 mile south of Greenup.	.08	1956-60++, 1961-77	03-28-77	11.34	14
03378980	Little Wabash River tributary at Clay City, IL	Lat 38°40'46", long 88°20'53", in SW¼ sec.20, T.3 N., R.8 E., Clay County, at culvert on U.S. Highway 50, 0.8 mile southeast of Clay City.	.43	1959-70, 1971-72++, 1973-77	08-07-77	13.19	58
03380300	Dums Creek tributary near Iuka, IL	Lat 38°37'35", long 88°49'20", in SW¼ sec.12, T.2 N., R.3 E., Marion County, at culvert on U.S. Highway 50, 1.9 miles northwest of Iuka.	.08	1956-57, 1958-60++, 1961-77	07-11-77	12.42	36

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Wabash River basin--Continued					
03380450	White Feather Creek near Marlow, IL	Lat 38°20'40", long 88°46'50", in NE¼ sec.20, T.2 S., R.4 E., Jefferson County, at culvert on former State Highway 15, 1.8 miles northeast of Marlow.	0.43	1956-57, 1958-61††, 1962-77	06-28-77	12.21	91
		Saline River basin					
03382025	Little Saline Creek tributary near Goreville, IL	Lat 37°36'28", long 88°58'44", in NW¼ sec.34, T.10 S., R.2 E., Williamson County, at culvert on State Highway 37, 3.6 miles north of Goreville.	.52	1959-69, 1970-73††, 1974-77	03-28-77	15.20	343
		Bay Creek basin					
03385000	Hayes Creek at Glendale, IL	Lat 37°27'25", long 88°40'05", in SW¼SW¼ sec.21, T.12 S., R.5 E., Pope County, on left bank at downstream side of bridge on State Highway 145 in Glendale, 3 miles upstream from mouth. Datum of gage is 375.14 ft.	19.1	1949-75**, 1976-77	03-28-77	16.36	5,130
03385500	Lake Glendale Inlet near Dixon Springs, IL	Lat 37°24'55", long 88°39'00", in NE¼SW¼ sec.3, T.13 S., R.5 E., Pope County, 0.9 mile upstream from Lake Glendale Dam and 2.5 miles north of Dixon Springs. Datum of gage is 418.39 ft.	1.05	1955-63**, 1964-77	03-28-77	3.65	880
03386500	Sugar Creek near Dixon Springs, IL	Lat 37°24'56", long 88°40'25", in NW¼SW¼ sec.4, T.13 S., R.5 E., Pope County, on left bank at downstream side of abandoned highway bridge, 0.6 mile downstream from outlet of Lake Glendale, 2 miles north of Dixon Springs, and 6.8 miles upstream from mouth. Datum of gage is 375.85 ft.	9.93	1950-71**, 1972-77	03-28-77	8.73	1,760
		Apple River basin					
05418750	South Fork Apple River near Nora, IL	Lat 42°25'35", long 89°57'50", in NW¼NW¼ sec.17, T.28 N., R.5 E., Jo Daviess County, at culvert on county road, 2.2 miles southwest of Nora.	1.93	1961-77	07-18-77	12.02	20
		Rock River basin					
05436900	Otter Creek tributary near Durand, IL	Lat 42°2[illegible]'10", long 89°19'25", in SE¼NE¼ sec.34, T.29 N., R.10 E., Winnebago County, at culvert on county road, 2.2 miles north of Durand.	.52	1961-77	07-18-77	11.11	30
05437950	Kishwaukee River near Huntley, IL	Lat 42°13'47", long 88°25'21", in SE¼SW¼ sec.4, T.43 N., R.7 E., McHenry County, at bridge on State Highway 47, 4.2 miles north of Huntley. Datum of gage is 854.54 ft.	14.4	1965-77	03-29-77	.54	70
05438040	North Branch Kishwaukee River near Hartland, IL	Lat 42°23'07", long 88°31'28", in NE¼NW¼ sec.15, T.45 N., R.6 E., McHenry County, at bridge on Streit Road, 1.6 miles northwest of Hartland. Datum of gage is 905.55 ft.	17.3	1970-77	03-29-77	[a]-.61	65

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft³/s)
		Rock River basin--Continued					
05438080	North Branch Kishwaukee River near Union, IL	Lat 42°16'22", long 88°32'58", in SE¼SE¼ sec.20, T.44 N., R.6 E., McHenry County, at bridge on Garden Valley Road, 2.7 miles north of Union and 3.2 miles northeast of Marengo. Datum of gage is 814.13 ft.	40.1	1970-77	03-29-77	0.82	153
05438115	South Branch Kishwaukee River (East) at Huntley, IL	Lat 42°09'18", long 88°25'56", in SW¼SW¼ sec.33, T.43 N., R.7 E., McHenry County, at bridge on State Highway 47, 1 mile south of Huntley. Datum of gage is 868.23 ft.	12.1	1965-77	05-05-77	.24	(†)
05438146	South Branch Kishwaukee River (East) at Union, IL	Lat 42°14'27", long 88°31'38", in SW¼SW¼ sec.34, T.44 N., R.6 E., McHenry County, at bridge on High Bridge Road, 0.9 mile northeast of Union. Datum of gage is 827.03 ft.	70.0	1970-77	05-05-77	.60	210
05438170	Kishwaukee River at Marengo, IL	Lat 42°15'57", long 88°36'29", in SW¼NW¼ sec.25, T.44 N., R.5 E., McHenry County, at bridge on State Highway 23, 0.7 mile north of Marengo. Datum of gage is 794.36 ft.	170	1970-77	07-16-77	[a]-.50	(†)
05438205	Rush Creek near Garden Prairie, IL	Lat 42°16'49", long 88°41'09", in SW¼NW¼ sec.20, T.44 N., R.5 E., McHenry County, at Round Barn Bridge on River Road, 2.7 miles northeast of Garden Prairie. Datum of gage is 788.82 ft.	29.5	1970-77	03-29-77	2.29	(†)
05438240	Hampshire Creek near Harmony, IL	Lat 40°07'23", long 88°34'09", in NE¼NE¼ sec.18, T.42 N., R.6 E., Kane County, at bridge on Walker Road, 2.7 miles northwest of Hampshire and 3.4 miles southwest of Harmony. Datum of gage is 831.85 ft.	12.9	1965-77	02-24-77	.26	(†)
05438276	Spring Creek near Garden Prairie, IL	Lat 42°13'10", long 88°42'18", in SW¼NE¼ sec.7, T.43 N., R.5 E., McHenry County, at bridge on County Line Road, 2.5 miles southeast of Garden Prairie. Datum of gage is 776.49 ft.	12.7	1970-77	03-29-77	.43	(†)
05438300	Lawrence Creek tributary near Harvard, IL	Lat 42°27'30", long 88°36'10", in SE¼SW¼ sec.13, T.46 N., R.5 E., McHenry County, at culvert on U.S. Highway 14, 2.5 miles north of Harvard. Datum of gage is 925.50 ft.	.84	1961-71, 1972††, 1973-77	05-05-77	11.29	35
05438390	Piscasaw Creek below Mokeler Creek near Capron, IL	Lat 42°23'08", long 88°41'49", in NE¼NW¼ sec.18, T.45 N., R.5 E., McHenry County, at Kruth Bridge on Streit Road, just downstream from Mokeler Creek, 2.3 miles southeast of Capron. Datum of gage is 844.86 ft.	88.1	1970-77	03-29-77	.66	370
05438850	Middle Branch of South Branch Kishwaukee River near Malta, IL	Lat 41°51'20", long 88°53'10", in NE¼SE¼ sec.16, T.39 N., R.3 E., De Kalb County, at culvert on county road, 5.5 miles south of Malta.	1.67	1956-65, 1966-74††, 1975-77	03-29-77	12.02	112
05439130	Virgil ditch No. 3 at Virgil, IL	Lat 41°57'28", long 88°33'23", in NW¼SE¼ sec.9, T.40 N., R.6 E., Kane County, at bridge on State Highway 64, 1.0 mile west of Virgil and 4.1 miles northeast of Maple Park. Datum of gage is 856.16 ft.	25.7	1965-77	03-29-77	3.73	(†)

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft^3/s)
		Rock River basin--Continued					
05440500	Killbuck Creek near Monroe Center, IL	Lat 42°05'55", long 89°03'10", in NW¼SW¼ sec.19, T.42 N., R.2 E., Ogle County, on right bank 800 ft downstream from Chicago, Milwaukee, St. Paul and Pacific RR. bridge, 800 ft upstream from bridge on State Highway 72, 3 miles west of Monroe Center, and 8 miles upstream from mouth. Datum of gage is 734.27 ft.	117	1940-71**, 1972-77	07-16-77	5.69	1,330
05440900	Leaf River tributary near Forreston, IL	Lat 42°07'40", long 89°31'20", in NE¼NW¼ sec.36, T.25 N., R.8 E., Ogle County, at culvert on State Highway 72, 3 miles east of Forreston.	.15	1956-64, 1965-71††, 1972-77	-	(b)	-
05441000	Leaf River at Leaf River, IL	Lat 42°07'40", long 89°23'25", in NW¼ sec.31, T.25 N., R.10 E., Ogle County, at bridge on State Highway 72, 0.6 mile east of town of Leaf River. Datum of gage is 685.64 ft.	103	1940-58**, 1959-77	03-29-77	12.74	3,420
05443500	Rock River at Como, IL	Lat 41°47'00", long 89°44'58", in NE¼ sec.[illegible], T.[illegible]1 N., R.6 E., Whiteside County, on left bank 1 mile upstream from Como, 3 miles downstream from Rock Falls, and 3.5 miles upstream from Elkhorn Creek. Datum of gage is 606.83 ft.	8,755	1915-71**, 1972-77	-	(b)	-
05447000	Green River at Amboy, IL	Lat 41°42'35", long 89°19'28", in SE¼NE¼ sec.22, T.20 N., R.10 E., Lee County, on left bank at downstream side of bridge on U.S. Highway 52, at southeast edge of Amboy. Datum of gage is 724.14 ft.	201	1940-58**, 1959-77	-	(b)	-
		Mill Creek basin					
05448050	Sand Creek near Milan, IL	Lat 41°24'05", long 90°36'20", in SE¼SE¼ sec.4, T.16 N., R.2 W., Rock Island County, at culvert on county road, 4 miles southwest of Milan.	.22	1956-63, 1964-69††, 1970-77	08-07-77	18.95	63
		Henderson Creek basin					
05467500	Henderson Creek near Little York, IL	Lat 41°02'35", long 90°44'45", between secs.8 and 9, T.12 N., R.3 W., Warren County, at bridge on State Highways 94 and 135, 2.2 miles north of Little York. Datum of gage is 566.24 ft.	151	1941-58**, 1960-77	08-08-77	14.43	2,380
05468500	Cedar Creek at Little York, IL	Lat 41°00'50", long 90°44'45", between secs.20 and 21, T.12 N., R.3 W., Warren County, attached to downstream side of middle pier of bridge on State Highway 135 at north edge of Little York, 1.5 miles upstream from Davids Creek and 6.7 miles upstream from mouth. Datum of gage is 574.27 ft.	130	1941-71**, 1972-77	08-08-77	14.61	1,960
05469500	South Henderson Creek at Biggsville, IL	Lat 40°51'25", long 90°51'50", between secs.16 and 17, T.10 N., R.4 W., Henderson County, near center of span on downstream side of bridge on State Highway 94 at north edge of Biggsville, 1.5 miles downstream from Old Tom Creek and 6.4 miles upstream from mouth. Datum of gage is 618.02 ft.	82.9	1940-71**, 1972-77	-	(b)	-

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Ellison Creek basin					
05469750	Ellison Creek tributary near Roseville, IL	Lat 40°44'00", long 90°45'35", near quarter section corner between secs.29 and 32, T.9 N., R.3 W., Warren County, at culvert on State Highway 116, 5 miles west of Roseville.	0.26	1956-63, 1964-70††, 1971-77	09-13-77	13.73	67
		Bear Creek basin					
05495200	Little Creek near Breckenridge, IL	Lat 40°15'00", long 91°19'15", in E½ sec.16, T.3 N., R.8 W., Hancock County, at culvert on West Point Road, 1.8 miles west of Breckenridge.	1.45	1956-62, 1963-65††, 1966-72, 1973-74††, 1975-77	05-06-77	16.91	427
		Hadley Creek basin					
05502020	Hadley Creek near Barry, IL	Lat 39°42'48", long 91°03'56", in SW¼SW¼ sec.14, T.4 S., R.6 W., Pike County, on left bank 300 ft downstream from bridge on U.S. Highway 36, 1.8 miles northwest of Barry and 2 miles upstream from Beebe Creek. Datum of gage is 533.59 ft.	40.9	1956-66**, 1967-77	05-06-77	7.80	3,300
		Kiser Creek basin					
05502120	Kiser Creek tributary near Barry, IL	Lat 39°41'05", long 91°00'00", in S½ sec.29, T.4 S., R.5 W., Pike County, at culvert on U.S. Highway 36, 2.3 miles east of Barry.	.78	1956-61, 1962††, 1963-72, 1973-74††, 1975-77	05-06-77	13.66	231
		Salt Spring Creek basin					
05513200	Salt Spring Creek near Gilead, IL	Lat 39°07'00", long 90°39'50", in SW¼ sec.8, T.11 S., R.2 W., Calhoun County, at culvert on county road, 0.6 mile south of Gilead.	1.20	1956-60, 1961-62††, 1963-77	03-28-77	11.29	182
		Illinois River basin					
05526150	Kankakee River tributary near Bourbonnais, IL	Lat 41°11'35", long 87°57'00", in SW¼ sec.3, T.31 N., R.11 E., Kankakee County, at culvert on State Highway 102, 4.5 miles northwest of Bourbonnais.	.19	1956-57††, 1958-77	03-04-77	13.13	4.7
05527870	Mill Creek at Wedges Corner, IL	Lat 42°23'00", long 88°00'15", in NW¼ sec.18, T.45 N., R.11 E., Lake County, at culvert on U.S. Highway 45, 0.2 mile south of Wedges Corner and 3.5 miles northeast of Grayslake. Datum of gage is 757.63 ft.	18.2	1962-76 (discontinued)	03-19-62	1.05	118
					07-19-63	[a]-.16	32
					06-15-64	(b)	-
					04-25-65	.80	93
					02-10-66	.15	44
					06-10-67	.51	69
					02-01-68	[a]-.20	31
					06-08-69	.79	92
					06-02-70	.82	95
					02-19-71	1.44	163
					08-23-72	[c].60	76
					[c]04-23-73	.71	85
					05-16-74	1.24	138
					04-27-75	.57	[d]74
					03-04-76	1.12	[d]125
05527900	North Mill Creek at Hickory Corners, IL	Lat 42°27'58", long 88°00'32", in SW¼NE¼ sec.13, T.46 N., R.10 E., Lake County, at bridge on State Highway 173, 0.4 mile east of Hickory Corners and 4.5 miles southeast of Antioch. Datum of gage is 744.17 ft.	21.4	1962-76 (discontinued)	03-30-60	[a]3.33	[e]510
					03-12-62	1.13	203
					07-19-63	[a]-1.27	50
					06-15-64	.32	142
					04-06-65	1.50	236
					02-10-66	1.45	231
					06-10-67	.85	181
					02-01-68	[a]-.41	95
					07-18-69	2.14	306
					06-02-70	1.30	217
					02-19-71	1.23	212
					08-23-72	.65	166
					[c]04-23-73	.84	180
					05-16-74	2.79	401
					04-27-75	(b)	[f]120
					[c]03-05-76	[c]2.51	[d]357

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Illinois River basin--Continued					
05527950	Mill Creek at Old Mill Creek, IL	Lat 42°24'55", long 87°58'08", in SW¼SE¼ sec.32, T.46 N., R.11 E., Lake County, at bridge on Edic Road at Old Mill Creek, 2.4 miles southwest of Wadsworth. Datum of gage is 676.85 ft.	60.9	1962-76 (discontinued)	03-31-60	[a]3.50	[e]778
					03-19-62	2.47	439
					04-30-63	(b)	[f]70
					06-15-64	(b)	[f]120
					04-06-65	2.40	423
					02-10-66	3.10	500
					06-10-67	2.28	395
					02-01-68	(b)	[f]146
					06-08-69	3.36	720
					06-02-70	3.42	744
					02-19-71	2.98	583
					06-20-72	3.80	921
					04-23-73	2.74	510
					05-16-74	3.64	840
					04-27-75	1.91	[d]319
					03-06-76	4.03	[d]1,050
05528150	Indian Creek at Diamond Lake, IL	Lat 42°13'27", long 88°00'17", in NW¼NW¼ sec.7, T.43 N., R.11 E., Lake County, at culvert on Diamond Lake Road, 1.2 miles south of Diamond Lake. Datum of gage is 705.97 ft.	10.6	1961-76 (discontinued)	03-30-60	[a]3.57	[e]1,150
					09-24-61	.51	111
					03-19-62	2.33	466
					04-30-63	(b)	[f]67
					07-18-64	.18	80
					04-06-65	1.74	306
					02-10-66	1.62	280
					04-01-67	1.64	284
					08-17-68	.17	80
					06-08-69	2.13	406
					06-02-70	2.61	590
					02-19-71	2.02	375
					[c]08-26-72	2.17	417
					04-22-73	2.06	386
					05-16-74	1.74	306
					01-10-75	1.02	174
					03-04-76	2.12	403
05528170	Diamond Lake drain at Mundelein, IL	Lat 42°14'56", long 87°59'37", in SW¼NE¼ sec.31, T.44 N., R.11 E., Lake County, at culvert on U.S. Highway 45 at Mundelein. Datum of gage is 727.49 ft. Prior to Oct. 1, 1964, at datum 0.08 ft higher.	2.57	1961-76 (discontinued)	09-24-61	[c]2.40	[d]64
					03-19-62	[c]1.53	56
					04-30-63	[c].71	[d]35
					04-05-64	[c]2.08	[d]67
					04-06-65	1.12	[d]36
					05-12-66	2.05	[d]78
					04-01-67	[c]1.65	49
					08-17-68	[c]1.35	40
					06-08-69	[c]1.01	23
					06-02-70	[c]1.20	36
					02-19-71	[c]3.53	110
					[c]08-26-72	[c]2.61	[d]68
					04-22-73	[c]2.16	56
					05-16-74	1.28	54
					04-27-75	2.98	107
					03-05-76	1.25	41
05528200	Hawthorn Drainage ditch near Mundelein, IL	Lat 42°14'25", long 87°57'42", in NW¼NW¼ sec.4, T.43 N., R.11 E., Lake County, at bridge on State Highway 60, 1.8 miles southeast of Mundelein. Datum of gage is 678.92 ft.	5.88	1961-76 (discontinued)	09-14-61	1.63	206
					03-19-62	.64	125
					04-30-63	.33	106
					07-18-64	.96	148
					04-06-65	1.54	197
					02-10-66	1.86	230
					06-10-67	2.23	273
					08-17-68	2.26	277
					06-08-69	3.06	416
					06-02-70	3.58	543
					02-19-71	1.71	214
					08-25-72	3.16	433
					04-22-73	.92	146
					01-27-74	1.01	152
					04-27-75	(b)	[f]206
					03-04-76	[c].23	100

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Illinois River basin--Continued					
05528230	Indian Creek at Prairie View, IL	Lat 42°12'34", long 87°57'18", in NW¼NE¼ sec.16, T.43 N., R.11 E., Lake County, at bridge on Prairie Road, 1 mile north of Prairie View and 1.2 miles northwest of Halfday. Datum of gage is 663.01 ft. Prior to Apr. 18, 1973, at datum 0.50 ft higher.	35.7	1961-76 (discontinued)	03-30-60	[a]1.72	[e]1,410
					09-25-61	[a]-.40	393
					03-19-62	(b)	-
					04-30-63	[a]-1.53	162
					07-18-64	[a]-1.17	222
					04-06-65	.39	656
					1966	(b)	-
					04-01-67	1.00	945
					08-17-68	[a]-.55	354
					06-08-69	.31	625
					06-02-70	.82	852
					02-19-71	(b)	[f]364
					08-25-72	(b)	-
					04-22-73	.79	617
					01-27-74	.54	526
					04-27-75	[a]-.60	235
					03-05-76	.57	537
05528360	Aptakisic Creek at Aptakisic, IL	Lat 42°10'05", long 87°56'58", in SE¼SE¼ sec.28, T.43 N., R.11 E., Lake County, at culvert on Buffalo Road, 1 mile south of Aptakisic and 2.5 miles southwest of Halfday. Datum of gage is 669.60 ft. Prior to Aug. 24, 1970, at datum 0.97 ft lower.	2.85	1961-76 (discontinued)	09-24-61	[a]-.50	34
					03-19-62	(b)	[f]100
					04-30-63	[a]-.43	38
					07-18-64	[a]-.26	47
					04-01-65	(b)	[f]78
					02-10-66	(b)	[f]79
					06-10-67	.85	147
					08-17-68	[a]-.03	62
					06-08-69	(g)	[f]123
					06-02-70	(g)	[f]300
					02-19-71	(b)	[f]157
					06-20-72	1.09	390
					04-22-73	.06	173
					01-27-74	(b)	[f]126
					04-27-75	[a]-.40	114
					[c]03-05-76	.01	166
05528400	Des Plaines River at Wheeling, IL	Lat 42°08'21", long 87°54'14", in SW¼SW¼ sec.1, T.42 N., R.11 E., Cook County, at bridge on State Highway 68 at Wheeling. Datum of gage is 633.98 ft. Prior to Apr. 18, 1973, at datum 1.03 ft higher.	325	1962-77	03-09-76	2.87	[d]2,400
					03-29-77	[a]-.82	610
05528440	Buffalo Creek near Lake Zurich, IL	Lat 42°10'58", long 88°03'02", in NW¼NE¼ sec.27, T.43 N., R.10 E., Lake County, at bridge on Cuba Road, 2.4 miles southeast of Lake Zurich. Datum of gage is 762.85 ft.	1.03	1961-76 (discontinued)	[c]09-24-61	(b)	[f]44
					03-19-62	(b)	[f]53
					04-30-63	.71	34
					07-18-64	.64	30
					04-01-65	1.25	72
					02-09-66	1.15	64
					04-01-67	1.15	64
					08-16-68	(b)	[f]52
					06-08-69	1.29	76
					06-02-70	2.16	193
					02-19-71	1.37	83
					08-25-72	2.21	203
					04-22-73	1.71	121
					05-16-74	1.74	125
					04-27-75	1.94	155
					03-04-76	1.69	118
05528470	Buffalo Creek at Long Grove, IL	Lat 42°10'38", long 87°59'57", in SE¼NW¼ sec.30, T.43 N., R.11 E., Lake County, at bridge on Schaefer Road at Long Grove, 4 miles southwest of Halfday. Datum of gage is 719.89 ft.	7.88	1961-76 (discontinued)	[c]09-24-61	[c]1.26	102
					03-19-62	1.88	204
					04-30-63	(b)	[f]55
					04-05-64	(b)	[f]118
					04-01-65	1.60	152
					02-10-66	1.88	204
					06-10-67	[c]2.44	340
					08-16-68	[c]1.38	126
					06-08-69	1.96	221
					06-02-70	2.65	403
					02-19-71	1.99	227
					08-25-72	3.03	539
					04-22-73	2.60	387
					01-27-74	2.15	264
					04-27-75	2.28	296
					03-04-76	2.72	426

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft³/s)
		Illinois River basin--Continued					
05529300	McDonald Creek near Wheeling, IL	Lat 42°07'14", long 87°56'47", in NW¼NW¼ sec.15, T.42 N., R.11 E., Cook County, at bridge on Schoenbeck Road, 1 mile south of Wheeling. Datum of gage is 658.85 ft.	4.58	1961-77	10-01-54	[a]4.55	[e]372
					07-13-57	[a]6.05	[e]698
					09-25-61	2.48	138
					03-19-62	1.46	80
					04-30-63	.34	39
					07-18-64	1.36	76
					04-06-65	1.37	76
					07-27-66	2.27	125
					06-11-67	4.65	389
					08-17-68	3.06	184
					06-08-69	3.03	181
					06-02-70	4.26	326
					02-19-71	2.88	169
					[c]08-26-72	5.15	485
					12-30-72	3.44	221
					05-16-74	3.65	244
					04-27-75	3.87	271
					03-05-76	3.76	257
					06-30-77	.83	51
05529900	Weller Creek at Mount Prospect, IL	Lat 42°03'32", long 87°57'23", in NE¼SW¼ sec.11, T.41 N., R.11 E., Cook County, at bridge on Lincoln Street at Mount Prospect. Datum of gage is 657.25 ft.	9.02	1961-77	[c]09-22-61	3.00	444
					03-19-62	(b)	[f]210
					07-19-63	[a]-.93	195
					09-22-64	-	[f]235
					08-17-65	.89	291
					07-27-66	5.80	821
					06-10-67	7.13	1,160
					08-17-68	4.66	627
					07-17-69	2.67	418
					06-02-70	6.25	919
					02-19-71	-	[f]680
					[c]08-26-72	7.21	1,190
					12-30-72	-	[f]840
					[c]05-16-74	3.00	444
					04-27-75	4.24	571
					[c]07-21-76	2.35	392
					06-30-77	.47	266
05530300	Willow Creek at Elk Grove Village, IL	Lat 41°59'36", long 87°57'18", in NW¼NW¼ sec.2, T.40 N., R.11 E., Du Page County, at bridge on Devon Avenue at Elk Grove Village, 4 miles south of Arlington Heights. Datum of gage is 663.71 ft.	2.39	1961-69, 1972-77	06-30-77	2.94	(*)
05530400	Higgins Creek near Mount Prospect, IL	Lat 42°02'04", long 87°57'35", in NW¼NW¼ sec.23, T.41 N., R.11 E., Cook County, at bridge on Busse Road, 2.3 miles southwest of Mount Prospect. Datum of gage is 674.18 ft. Prior to Apr. 17, 1973, at datum 1.84 ft lower.	2.24	1961-77	09-25-61	1.63	63
					03-19-62	-	[f]50
					03-06-63	2.11	95
					04-05-64	.65	16
					02-07-65	1.21	38
					05-12-66	2.90	158
					06-10-67	4.89	382
					08-17-68	2.87	156
					06-08-69	3.30	195
					06-02-70	(g)	[f]347
					08-24-71	(g)	[f]133
					08-26-72	[a]5.44	463
					12-30-72	[a]4.45	324
					01-27-74	.16	87
					04-18-75	1.34	184
					03-05-76	.55	116
					09-01-77	.52	114

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft³/s)
		Illinois River basin--Continued					
05530480	Willow Creek at Orchard Place, IL	Lat 41°59'49", long 87°52'47", in SE¼SW¼ sec.33, T.41 N., R.12 E., Cook County, at bridge on State Highway 72, 0.2 mile south of Orchard Place and 1.5 miles south of Des Plaines. Datum of gage is 629.85 ft.	18.1	1961-77	10-10-54	[a]4.80	[e]782
					07-13-57	[a]5.78	[e]1,200
					09-14-61	2.68	322
					03-19-62	2.59	310
					07-19-63	.80	126
					04-05-64	1.77	210
					02-07-65	1.50	184
					05-12-66	4.52	692
					06-10-67	[a]7.21	2,100
					08-17-68	2.80	340
					06-08-69	3.71	[illegible]
					06-02-70	4.97	845
					08-24-71	2.98	366
					08-26-72	[a]6.06	1,350
					12-30-72	4.61	718
					01-27-74	3.71	494
					04-18-75	-	[f]1,070
					03-05-76	4.72	754
					09-01-77	3.34	426
05530600	Des Plaines River at River Grove, IL	Lat 41°55'46", long 87°50'40", in NW¼SW¼ sec.26, T.40 N., R.12 E., Cook County, at bridge on Grand Avenue at River Grove. Datum of gage is 612.93 ft.	451	1961-77	06-30-77	1.97	1,290
05530700	Silver Creek at Melrose Park, IL	Lat 41°54'18", long 87°50'40", in NW¼NW¼ sec.2, T.39 N., R.12 E., Cook County, at bridge on 9th Avenue, 0.3 mile east of Melrose Park. Datum of gage is 617.45 ft.	11.2	1961-77	10-10-54	[a]2.36	[e]547
					09-14-61	2.81	589
					07-02-62	.56	262
					07-19-63	.88	309
					07-18-64	2.23	524
					06-08-65	2.59	586
					05-12-66	1.19	356
					06-10-67	1.29	372
					08-17-68	3.55	[f]600
					07-17-69	2.44	560
					06-02-70	.93	317
					08-24-71	1.33	378
					09-18-72	3.57	752
					07-24-73	1.84	459
					04-03-74	1.13	347
					04-18-75	2.08	499
					04-25-76	.87	308
					06-30-77	1.70	434
05530940	Salt Creek at Palatine, IL	Lat 42°06'38", long 88°03'47", in SW¼SW¼ sec.15, T.42 N., R.10 E., Cook County, at culvert on Chicago Avenue at intersection with Quinten Road in Palatine. Datum of gage is 746.26 ft.	6.26	1961-77	09-24-61	1.65	215
					03-20-62	1.25	177
					04-30-63	1.18	171
					04-05-64	[a].18	106
					02-07-65	.81	151
					05-12-66	1.20	173
					06-10-67	3.16	482
					08-17-68	1.29	180
					06-08-69	1.33	184
					06-02-70	2.14	275
					02-19-71	1.32	183
					08-26-72	3.27	513
					04-22-73	2.62	356
					01-27-74	1.60	210
					04-27-75	[a]1.55	205
					03-05-76	.86	148
					03-29-77	(b)	-
05530960	Salt Creek near Palatine, IL	Lat 42°04'26", long 88°02'38", in NW¼SW¼ sec.35, T.42 N., R.10 E., Cook County, at bridge on Meacham Road, 0.4 mile north from intersection of Meacham and Algonquin Roads and 2.6 miles south from Chicago and North Western RR. crossing in Palatine. Datum of gage is 711.61 ft.	16.0	1961-77	09-24-61	1.30	213
					03-20-62	1.31	215
					04-30-63	.48	123
					04-05-64	.35	112
					[c]04-06-65	1.64	210
					05-12-66	2.31	367
					06-10-67	3.96	744
					08-17-68	1.00	240
					[c]06-08-69	1.02	180
					06-02-70	2.33	371
					02-19-71	2.27	[f]232
					08-26-72	3.45	609
					04-22-73	3.10	526
					01-27-74	1.67	264
					04-27-75	2.00	314
					03-05-76	2.58	417
					06-05-77	1.54	244

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi²)	Period of record	Date	Gage height (feet)	Discharge (ft³/s)
		Illinois River basin--Continued					
05531050	Salt Creek near Wood Dale, IL	Lat 41°59'34", long 87°59'44", in NW¼NW¼ sec.4, T.40 N., R.11 E., Du Page County, at bridge on Devon Avenue, 2 miles northwest of Wood Dale. Datum of gage is 677.40 ft.	53.6	1961-77	10-10-54	[a]2.60	[e]610
					07-12-57	[a]1.10	[e]287
					[c]04-02-60	[a]2.50	[e]583
					09-25-61	2.02	465
					03-20-62	2.43	565
					04-30-63	1.21	305
					[c]04-05-64	1.22	307
					02-08-65	1.98	456
					05-12-66	2.47	575
					[c]06-10-67	[d]4.10	1,160
					08-17-68	1.53	363
					06-08-69	2.20	508
					06-02-70	2.75	654
					02-19-71	2.94	714
					08-26-72	4.78	1,510
					[c]04-22-73	[c]2.63	619
					[c]05-16-74	[c]2.73	648
					04-18-75	3.33	848
					03-05-76	3.99	1,110
					09-01-77	1.54	553
05531080	Spring Brook at Bloomingdale, IL	Lat 41°57'31", long 88°04'14", in NW¼NW¼ sec.14, T.40 N., R.10 E., Du Page County, at culvert on Circle Avenue, 0.1 mile north of U.S. Highway 20 and 0.1 mile east of Bloomingdale. Datum of gage is 707.53 ft. Prior to Sept. 27, 1963, at datum 1.00 ft higher.	5.08	1961-77	09-24-61	.60	176
					03-19-62	.18	146
					04-30-63	.56	105
					04-05-64	(b)	[f]74
					02-07-65	(b)	[f]135
					05-12-66	.46	279
					06-10-67	.46	240
					08-17-68	.34	168
					06-08-69	.00	141
					06-02-70	.89	198
					02-19-71	.70	114
					08-26-72	[a]6.57	645
					07-24-73	[c]1.83	193
					01-27-74	2.72	263
					04-18-75	2.63	256
					03-05-76	1.44	165
					03-29-77	1.47	181
05531130	Spring Brook at Walnut Avenue at Itasca, IL	Lat 41°58'16", long 88°00'47", in SE¼NW¼ sec.8, T.40 N., R.11 E., Du Page County, at culvert under intersection of State Highway 19 and Walnut Avenue at Itasca. Datum of gage is 680.44 ft.	13.7	1961-77	09-24-61	.32	208
					03-19-62	.22	196
					04-30-63	(b)	[f]133
					04-05-64	(b)	[f]103
					02-07-65	.17	191
					05-12-66	1.42	365
					06-10-67	1.20	330
					08-17-68	.36	213
					06-08-69	.70	258
					06-02-70	[a]-.22	148
					02-19-71	-	[f]212
					08-26-72	3.57	770
					12-30-72	.69	256
					01-27-74	.82	274
					04-18-75	.98	297
					03-05-76	1.08	312
					03-29-77	(b)	
05531200	Salt Creek at Addison, IL	Lat 41°55'44", long 87°58'40", in SW¼NW¼ sec.27, T.40 N., R.11 E., Du Page County, at bridge on U.S. Highway 20 at Addison. Datum of gage is 667.06 ft. Prior to Apr. 18, 1973, at datum 2.00 ft lower.	83.2	1961-76 (discontinued)	03-22-48	[a]6.04	[e]1,060
					04-26-50	[a]5.44	[e]910
					10-10-54	[a]6.42	[e]1,150
					07-12-57	[a]4.84	[e]776
					03-30-60	[a]5.75	[d]984
					[c]09-24-61	4.74	[d]755
					03-20-62	5.12	[d]838
					04-30-63	3.60	[d]531
					04-06-64	3.58	[d]528
					[c]04-08-65	4.04	[d]613
					05-12-66	6.10	[d]1,070
					06-12-67	6.82	[d]1,260
					08-17-68	4.02	[d]609
					06-09-69	5.29	[d]876
					05-14-70	[a]3.81	570
					02-20-71	[a]4.80	768
					08-27-72	[a]9.62	2,110
					04-22-73	1.60	531
					[c]05-17-74	[d]4.02	1,050
					04-18-75	3.90	[d]989
					03-05-76	4.49	[d]1,150

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Illinois River basin--Continued					
05531300	Salt Creek at Elmhurst, IL	Lat 41°53'20", long 87°57'41", in NE¼NE¼ sec.10, T.39 N., R.11 E., Du Page County, at bridge on State Highway 83 at Elmhurst. Datum of gage is 660.49 ft.	90.6	1961-77	03-22-48	[a]4.01	[e]1,130
					04-26-50	[a]4.11	[e]1,160
					10-10-54	[a]4.86	[e]1,380
					07-12-57	[a]3.11	[e]895
					03-30-60	[a]4.47	[e]1,260
					09-14-61	[a]2.21	688
					03-21-62	3.85	1,090
					04-30-63	1.83	608
					04-06-64	1.86	614
					04-08-65	2.22	688
					05-12-66	4.86	1,400
					06-12-67	5.19	1,480
					08-17-68	3.27	934
					06-09-69	3.46	982
					05-14-70	2.75	808
					02-20-71	3.39	964
					08-27-72	7.27	2,230
					04-22-73	2.40	729
					05-17-74	3.64	1,030
					04-18-75	3.31	944
					03-05-76	3.89	1,100
					06-30-77	1.82	606
05531380	Salt Creek at Oak Brook, IL	Lat 41°51'39", long 87°56'52", in NW¼NE¼ sec.23, T.39 N., R.11 E., Du Page County, at bridge on frontage road just upstream from State Highway 38, 0.6 mile north of Oak Brook and 0.5 mile south of Elmhurst. Datum of gage is 655.71 ft.	100	1961-76 (discontinued)	03-22-48	[a]3.89	[e]1,560
					04-26-50	[a]2.99	[e]1,250
					10-10-54	[a]3.39	[e]1,380
					07-13-57	[a]2.19	[e]1,010
					03-31-60	[a]2.96	[e]1,240
					09-25-61	1.81	911
					03-21-62	2.30	1,040
					04-30-63	.41	582
					04-06-64	.31	562
					02-08-65	.90	689
					05-12-66	2.85	1,210
					06-12-67	2.82	1,200
					08-17-68	1.25	770
					06-08-69	1.23	766
					06-03-70	2.56	1,120
					02-21-71	1.12	740
					08-27-72	4.48	1,790
					04-22-73	2.28	1,040
					05-17-74	2.43	1,080
					04-18-75	3.22	1,330
					03-05-76	3.52	1,430
05531800	Addison Creek at Northlake, IL	Lat 41°54'37", long 87°54'10", in SW¼SW¼ sec.32, T.40 N., R.12 E., Cook County, at bridge on Wolf Road at Northlake, 0.5 mile north of Melrose Park. Datum of gage is 638.59 ft.	6.79	1961-77	09-24-61	2.88	389
					03-18-62	2.18	334
					04-30-63	1.70	303
					04-06-64	1.90	316
					06-08-65	1.82	311
					05-12-66	3.60	449
					04-01-67	2.29	342
					08-16-68	2.87	388
					06-08-69	2.62	367
					10-10-69	3.08	406
					02-19-71	2.19	335
					09-17-72	2.30	343
					07-24-73	1.76	307
					04-03-74	(b)	-
					04-18-75	.64	239
					04-25-76	[a]-.56	177
					06-30-77	.55	233
05533200	Sawmill Creek tributary near Tiedtville, IL	Lat 41°44'05", long 87°58'00", in NE¼SW¼ sec.34, T.38 N., R.11 E., Du Page County, at culvert on U.S. Highway 66, 0.6 mile east of Cass Avenue and 2.8 miles northwest of Tiedtville. Datum of gage is 676.54 ft.	2.33	1961-77	09-25-61	[a]1.79	200
					03-12-62	1.60	178
					04-30-63	.02	49
					04-06-64	(b)	[f]48
					09-22-65	1.95	219
					07-27-66	2.23	254
					06-10-67	2.00	225
					08-17-68	2.25	257
					04-04-69	1.81	202
					05-14-70	1.49	166
					02-04-71	1.51	168
					03-13-72	2.24	256
					07-24-73	2.56	300
					05-16-74	2.43	282
					04-18-75	2.46	286
					06-13-76	2.66	315
					05-05-77	2.48	289

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi²)	Period of record	Date	Gage height (feet)	Discharge (ft³/s)
		Illinois River basin--Continued					
05533300	Wards Creek near Woodridge, IL	Lat 41°43'32", long 87°59'19", in SW¼NW¼ sec.4, T.37 N., R.11 E., Du Page County, at culvert on U.S. Highway 66, 3 miles southwest of Woodridge and 3.5 miles north of Lemont. Datum of gage is 695.30 ft.	3.21	1962-76 (discontinued)	03-12-62	1.04	60
					04-30-63	(b)	[f]20
					04-06-64	.36	35
					09-22-65	.91	[d]55
					05-12-66	2.93	[d]151
					06-10-67	2.12	[d]109
					08-17-68	.73	48
					04-04-69	1.35	[d]73
					06-21-70	1.83	[d]95
					02-04-71	1.28	[d]70
					08-26-72	1.66	[d]87
					04-22-73	1.81	[d]94
					05-16-74	1.98	[d]102
					04-18-75	2.84	[d]146
					07-21-76	1.97	[d]101
05533400	Sawmill Creek near Lemont, IL	Lat 41°42'28", long 87°57'45", in NE¼SW¼ sec.10, T.37 N., R.11 E., Du Page County, at bridge on Rocky Glen Road at south edge of Argonne National Laboratory and 2.5 miles northeast of Lemont. Datum of gage is 641.22 ft.	13.0	1961-77	09-14-61	[a]1.59	924
					03-12-62	[a]-.86	195
					04-30-63	[a]-1.62	59
					04-06-64	(b)	[f]156
					09-22-65	(b)	[f]395
					05-12-66	1.72	984
					06-10-67	1.08	725
					08-17-68	.29	472
					04-04-69	.55	541
					05-14-70	[a]-.50	279
					02-04-71	(b)	[f]385
					08-26-72	1.49	883
					12-30-72	1.06	718
					05-16-74	.88	654
					04-18-75	1.72	984
					06-13-76	1.69	970
					09-01-77	.53	535
05534300	North Branch Chicago River at Lake Forest, IL	Lat 42°14'24", long 87°52'50", in NE¼NW¼ sec.6, T.43 N., R.12 E., Lake County, at bridge on State Highway 60 at Lake Forest. Datum of gage is 662.13 ft.	10.8	1961-76 (discontinued)	09-25-61	.28	124
					03-19-62	1.49	192
					04-30-63	[a]-.07	107
					04-06-64	.48	134
					02-07-65	1.08	167
					02-10-66	1.98	225
					04-01-67	2.19	240
					08-17-68	(b)	[f]108
					06-08-69	2.96	299
					06-02-70	2.84	290
					02-19-71	2.40	255
					06-20-72	2.91	295
					04-22-73	2.22	242
					01-27-74	2.06	230
					04-28-75	(b)	[f]90
					03-04-76	1.56	196
05534400	North Branch Chicago River at Bannockburn, IL	Lat 42°12'00", long 87°51'10", in SW¼SE¼ sec.17, T.43 N., R.12 E., Lake County, at bridge on State Highway 22, 0.6 mile east of Bannockburn. Datum of gage is 652.65 ft.	15.8	1960-76 (discontinued)	03-30-60	[a]4.27	321
					09-25-61	2.17	175
					03-20-62	3.45	250
					04-30-63	.75	117
					04-06-64	2.15	174
					04-06-65	2.70	202
					02-10-66	3.70	269
					06-10-67	4.57	355
					08-17-68	-	[f]145
					06-08-69	4.25	319
					06-02-70	3.81	278
					02-20-71	-	[f]300
					06-20-72	4.44	339
					04-22-73	4.33	327
					01-27-74	3.69	268
					02-24-75	1.75	156
					03-05-76	3.86	282

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft³/s)
		Illinois River basin--Continued					
05534600	North Branch Chicago River at Northfield, IL	Lat 42°06'05", long 87°46'26", in NE¼SE¼ sec.24, T.42 N., R.12 E., Cook County, at bridge on Willow Road at Northfield, about 1.5 miles south of Winnetka. Datum of gage is 622.68 ft.	23.8	1960-77	03-30-60	[a]2.51	358
					09-25-61	1.53	277
					03-20-62	1.91	307
					04-30-63	.60	204
					04-06-64	.73	214
					04-06-65	1.49	273
					02-10-66	1.47	361
					06-10-67	2.25	470
					08-17-68	.19	213
					06-08-69	1.92	424
					06-02-70	1.20	327
					02-20-71	1.97	430
					06-20-72	1.92	424
					04-22-73	2.27	473
					05-17-74	1.63	384
					04-27-75	1.74	399
					04-25-76	2.33	481
					03-29-77	(b)	-
05534900	Skokie River at Lake Bluff, IL	Lat 42°16'46", long 87°51'46", in NW¼ sec.20, T.44 N., R.12 E., Lake County, at bridge on State Highway 176, 1 mile west of Lake Bluff. Datum of gage is 665.28 ft.	8.17	1962-76 (discontinued)	03-19-62	1.30	132
					04-30-63	.46	73
					07-18-64	1.59	158
					04-23-65	1.59	158
					02-10-66	1.45	145
					06-10-67	[c]2.36	244
					06-25-68	.52	77
					06-08-69	3.13	374
					06-02-70	2.88	324
					02-19-71	1.68	166
					06-20-72	3.02	350
					04-22-73	2.62	280
					01-27-74	2.84	316
					04-27-75	1.64	162
					03-04-76	3.22	395
05535150	Skokie River at Northfield, IL	Lat 42°06'05", long 87°45'33", in NW¼SE¼ sec.19, T.42 N., R.13 E., Cook County, at bridge on Willow Road, below Willow Road dam and at Northfield. Datum of gage is 619.42 ft.	29.1	1960-77	03-30-60	[a]1.68	387
					09-25-61	.88	320
					03-19-62	1.52	374
					04-30-63	.23	267
					04-06-64	.38	279
					04-06-65	.45	285
					05-12-66	.78	312
					06-10-67	-	[f]567
					08-17-68	[a]-.10	309
					06-08-69	1.36	450
					06-02-70	1.05	420
					02-20-71	.89	404
					06-20-72	1.45	459
					12-30-72	.69	385
					05-16-74	1.23	438
					04-28-75	.84	399
					03-05-76	1.86	499
					03-29-77	(b)	-
05535200	North Branch Chicago River at Glenview, IL	Lat 42°04'08", long 87°46'28", in SE¼SE¼ sec.36, T.42 N., R.12 E., Cook County, at bridge on Glenview Road at Glenview. Datum of gage is 615.79 ft.	60.5	1960-77	03-30-60	[a]3.03	786
					09-25-61	2.60	608
					03-19-62	2.53	674
					04-30-63	1.82	532
					04-06-64	1.82	532
					04-06-65	1.40	458
					02-10-66	2.24	616
					06-10-67	4.11	1,070
					08-17-68	1.75	519
					06-08-69	3.35	866
					06-02-70	-	[f]730
					02-20-71	2.20	608
					06-20-72	3.85	998
					04-22-73	2.55	678
					05-17-74	2.90	755
					04-28-75	2.68	704
					04-25-76	4.53	1,200
					06-30-77	.54	319

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Illinois River basin--Continued					
05535300	West Fork of North Branch Chicago River at Bannockburn, IL	Lat 42°12'00", long 87°53'24", in NE¼SE¼ sec.13, T.43 N., R.11 E., Lake County, at culvert on State Highway 22, 0.7 mile northwest of Bannockburn. Datum of gage is 662.09 ft.	2.55	1961-76 (discontinued)	09-25-61	2.50	166
					03-19-62	1.97	128
					04-30-63	1.71	111
					07-18-64	2.44	162
					04-06-65	2.42	160
					02-10-66	3.36	245
					06-10-67	4.02	325
					08-17-68	1.72	112
					06-08-69	3.84	301
					06-02-70	3.54	265
					02-19-71	2.83	193
					06-20-72	4.44	387
					04-22-73	3.82	299
					01-26-74	3.23	231
					04-27-75	2.64	178
					03-04-76	3.46	256
05535400	West Fork of North Branch Chicago River at Deerfield, IL	Lat 42°10'02", long 87°51'24", in NW¼NE¼ sec.32, T.43 N., R.12 E., Lake County, at bridge on Deerfield Road at Deerfield. Datum of gage is 651.12 ft.	6.50	1961-76 (discontinued)	09-14-61	.95	324
					03-19-62	.31	290
					04-30-63	[a]-.45	247
					07-18-64	2.64	376
					04-06-65	.21	208
					05-12-66	1.87	324
					06-10-67	5.82	571
					08-17-68	2.32	355
					06-08-69	3.29	418
					06-02-70	2.54	370
					02-19-71	1.12	272
					06-20-72	5.14	531
					04-22-73	4.25	477
					05-16-74	2.46	364
					04-27-75	2.50	367
					03-04-76	3.88	455
05535700	West Fork of North Branch Chicago River at Glenview, IL	Lat 42°05'13", long 87°48'08", in NE¼SW¼ sec.26, T.42 N., R.12 E., Cook County, at bridge on Chestnut Avenue at Glenview. Datum of gage is 620.60 ft.	21.6	1960-77	03-30-60	[a]4.89	713
					09-25-61	4.52	647
					03-19-62	3.54	491
					04-30-63	2.84	397
					07-18-64	3.11	432
					04-06-65	2.17	319
					05-12-66	4.70	678
					06-10-67	6.90	1,140
					08-17-68	3.78	527
					06-08-69	5.87	905
					06-02-70	4.47	638
					02-19-71	3.41	472
					06-15-72	6.32	1,000
					12-30-72	5.00	733
					01-27-74	4.63	666
					04-28-75	5.15	761
					04-25-76	6.02	937
					06-30-77	1.26	224
05535800	North Branch Chicago River at Morton Grove, IL	Lat 42°03'00", long 87°46'50", in SE¼SW¼ sec.17, T.41 N., R.13 E., Cook County, at bridge on Beckwidth Road at Morton Grove. Datum of gage is 611.40 ft.	92.2	1960-77	03-30-60	-	[f]1,220
					09-25-61	4.52	1,190
					03-19-62	3.63	971
					04-30-63	3.45	827
					04-06-64	3.36	763
					02-07-65	2.74	629
					05-12-66	4.78	1,280
					06-10-67	7.32	2,130
					08-17-68	3.44	793
					06-09-69	5.40	1,350
					06-02-70	4.64	1,090
					02-20-71	3.97	859
					06-15-72	5.69	1,440
					04-22-73	4.51	1,040
					05-17-74	4.54	1,060
					04-28-75	4.60	1,080
					04-25-76	5.84	1,500
					06-11-77	3.40	661

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi^{2})	Period of record	Date	Gage height (feet)	Discharge (ft^{3}/s)
		Illinois River basin--Continued					
05536178	Plum Creek near Dyer, IN	Lat 41°28'12", long 87°31'57", in SE¼SW¼ sec.32, T.35 N., R.15 E., Cook County, at bridge on Steger Road, 1.8 miles southwest of Dyer. Datum of gage is 635.87 ft.	34.8	1966-77	10-10-54	[a]11.20	[e]2,480
					12-25-65	[a]9.65	2,080
					04-01-67	5.69	991
					08-17-68	7.27	1,390
					01-30-69	5.36	916
					05-14-70	7.07	1,330
					10-14-70	2.73	430
					03-13-72	4.90	816
					12-30-72	8.81	1,860
					06-06-74	7.24	1,380
					01-10-75	7.95	1,600
					04-25-76	[a]5.35	914
					03-29-77	1.65	285
05536201	Thorn Creek at Park Forest, IL	Lat 41°28'19", long 87°40'26", in SW¼SW¼ sec.31, T.35 N., R.14 E., Cook County, at bridge on Western Avenue at Park Forest, 1.5 miles west of Steger. Datum of gage is 683.57 ft.	6.28	1962-77	10-10-54	[a]3.69	[e]475
					07-13-57	[a]5.53	[e]1,320
					03-11-62	1.00	116
					07-16-63	(b)	[f]60
					04-05-64	1.26	134
					04-25-65	2.19	215
					12-24-65	3.78	502
					04-01-67	3.26	369
					08-17-68	5.24	1,140
					01-30-69	1.34	139
					05-14-70	3.40	400
					10-14-70	-	[f]440
					03-13-72	2.22	218
					12-30-72	3.68	472
					06-06-74	5.74	1,460
					01-10-75	2.85	300
					07-20-76	3.05	332
					09-18-77	1.91	186
05536207	Thorn Creek tributary at Chicago Heights, IL	Lat 41°30'22", long 87°39'36", in SW¼NE¼ sec.19, T.35 N., R.14 E., Cook County, at bridge on U.S. Highway 30 in Chicago Heights. Datum of gage is 660.96 ft. Prior to Apr. 19, 1973, at datum 0.83 ft higher.	3.87	1962-77	10-31-61	1.06	155
					07-19-63	.43	127
					09-20-64	2.72	276
					09-14-65	2.70	274
					12-24-65	-	[f]406
					12-07-66	1.77	197
					08-17-68	4.54	1,090
					07-30-69	2.96	312
					05-14-70	2.35	238
					10-14-70	3.10	346
					08-12-72	3.17	364
					12-30-72	2.43	244
					06-06-74	[c]4.94	758
					06-15-75	.93	110
					05-06-76	2.32	179
					09-18-77	2.10	166
05536238	Butterfield Creek near Lincoln Estates, IL	Lat 41°30'22", long 87°46'34", in NE¼SE¼ sec.19, T.35 N., R.13 E., Cook County, at bridge on U.S. Highway 30, 1.5 miles east of Lincoln Estates and 2.8 miles west of Matteson. Datum of gage is 697.08 ft. Prior to Apr. 19, 1973, at datum 0.10 ft higher.	1.77	1961-77	09-24-61	[a]2.59	248
					03-11-62	.52	71
					07-23-63	(b)	[f]44
					06-21-64	.34	61
					03-17-65	1.40	132
					12-24-65	2.16	201
					04-01-67	.99	100
					08-17-68	[a]3.54	372
					01-30-69	[a].32	60
					05-14-70	[a]2.79	271
					07-05-71	[a]-.34	30
					03-13-72	[a].59	75
					04-22-73	1.35	120
					06-06-74	3.11	299
					06-15-75	2.50	226
					04-25-76	1.72	150
					03-29-77	2.35	210

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi²)	Period of record	Date	Gage height (feet)	Discharge (ft³/s)
		Illinois River basin--Continued					
05536310	Calumet Union Drainage Canal near Markham, IL	Lat 41°35'48", long 87°39'59", in SE¼NW¼ sec.19, T.36 N., R.14 E., Cook County, at bridge on Dixie Highway at Markham. Datum of gage is 603.54 ft. Prior to November 1971 at datum 0.04 ft higher.	12.6	1961-77	10-11-54	[a]5.48	[e]389
					07-13-57	[a]6.51	[e]467
					09-24-61	[a]5.76	410
					03-11-62	2.29	191
					07-19-63	3.49	259
					04-21-64	1.42	145
					03-17-65	4.24	306
					12-25-65	6.04	431
					04-01-67	4.32	311
					08-17-68	6.94	502
					07-27-69	2.63	210
					05-14-70	5.60	398
					02-19-71	4.49	322
					04-16-72	3.62	265
					12-30-72	5.05	356
					06-06-74	5.46	385
					06-15-75	2.75	214
					03-05-76	3.52	259
					09-01-77	(g)	-
05536335	Midlothian Creek near Tinley Park, IL	Lat 41°35'18", long 87°44'52", in NE¼NW¼ sec.28, T.36 N., R.13 E., Cook County, at bridge on 167th Street, 0.6 mile west of State Highway 50 and 2 miles northeast of Tinley Park. Datum of gage is 659.16 ft. Prior to Oct. 1, 1975, at datum 1.06 ft higher.	9.13	1954-77	03-25-54	2.30	204
					10-11-54	[a]4.45	481
					04-29-56	1.78	160
					07-13-57	[a]4.44	479
					06-13-58	2.10	[h]145
					04-28-59	3.23	[h]195
					03-27-60	2.91	[h]180
					09-23-61	3.05	282
					03-19-62	2.16	191
					07-20-63	1.80	162
					04-21-64	.20	65
					03-17-65	2.28	165
					05-12-66	4.10	332
					04-01-67	2.30	205
					08-17-68	3.33	253
					07-27-69	2.30	166
					04-30-70	3.78	298
					03-15-71	2.60	189
					03-13-72	3.10	237
					04-22-73	-	[f]580
					05-17-74	3.12	234
					05-30-75	3.60	279
					03-05-76	3.80	201
					09-01-77	3.65	188
03536460	Tinley Creek near Oak Forest, IL	Lat 41°37'49", long 87°47'05", in NW¼NE¼ sec.7, T.36 N., R.13 E., Cook County, at bridge on Justamere Road, about 2.8 miles northwest of Oak Forest. Datum of gage is 631.48 ft.	7.95	1961-77	09-24-61		[f]386
					03-12-62	1.33	261
					07-19-63	2.27	430
					04-21-64	(b)	[f]109
					03-17-65	1.80	337
					05-12-66	3.50	783
					04-01-67	2.53	488
					08-17-68	2.35	447
					[c]01-29-69	-	[f]210
					04-30-70	3.99	999
					[c]03-15-71	.85	197
					03-13-72	2.58	501
					04-22-73	3.31	715
					05-17-74	2.84	569
					02-18-75	2.86	575
					[c]02-21-76	1.88	352
					09-01-77	1.36	266
05536510	Navajo Creek at Palos Heights, IL	Lat 41°39'39", long 87°47'38", in SW¼SW¼ sec.30, T.37 N., R.13 E., Cook County, at bridge on 127th Street at south edge of Palos Heig[illegible], 2.5 miles east of Palos Park. Datum of gage is 613.72 ft.	1.69	1961-77	09-24-61	-	[f]260
					03-11-62	[d]2.62	166
					07-20-63	[d]3.17	225
					04-06-64	[d]2.21	133
					03-17-65	[d]2.61	166
					05-12-66	[d]3.15	222
					04-01-67	[d]3.23	232
					08-17-68	[d]3.52	273
					01-29-69	[d]2.83	186
					04-30-70	[d]4.31	423
					07-05-71	[a]2.45	150
					03-13-72	[a]3.14	221
					04-22-73	[d]3.30	241
					05-16-74	[d]4.10	377
					04-18-75	[d]2.92	196
					07-21-76	4.35	434
					09-01-77	3.32	244

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Illinois River basin--Continued					
05536550	Stony Creek (West) tributary at Oak Lawn, IL	Lat 41°42'56", long 87°45'32", in SW¼NW¼ sec.9, T.37 N., R.13 E., Cook County, at culvert on Edison Avenue and East Shore Drive in Oak Lawn. Datum of gage is 595.90 ft. Prior to May 15, 1973, at datum 4.66 ft higher.	3.00	1962-77	06-13-76	[a]6.32	[d]447
					09-01-77	2.71	115
05536560	Melvina ditch near Oak Lawn, IL	Lat 41°43'09", long 87°47'07", in NW¼NE¼ sec.7, T.37 N., R.13 E., Cook County, at culvert on 95th Street, 2.2 miles west of Oak Lawn. Datum of gage is 598.57 ft. Prior to May 15, 1973, at datum 0.91 ft higher.	5.58	1962-77	03-11-62	1.22	137
					07-20-63	(b)	[f]67
					04-06-64	(b)	[f]35
					09-08-65	(b)	[f]56
					05-12-66	1.32	143
					04-01-67	.43	91
					08-17-68	.90	117
					07-27-69	.18	79
					04-30-70	[a]1.92	183
					02-05-71	[a].60	100
					03-13-72	[a].66	104
					04-22-73	[a].77	110
					05-16-74	2.59	166
					04-18-75	3.48	231
					06-13-76	5.53	408
					09-01-77	3.52	234
05536570	Stony Creek (West) at Worth, IL	Lat 41°42'00", long 87°47'52", in SE¼NE¼ sec.13, T.37 N., R.13 E., Cook County, at bridge on Harlem Avenue, 0.8 mile north of Worth. Datum of gage is 580.83 ft.	18.0	1962-77	03-11-62	-	[f]520
					07-20-63	4.09	340
					04-06-64	.78	94
					09-08-65	2.71	212
					05-12-66	6.39	619
					04-01-67	4.22	350
					08-17-68	6.92	708
					01-29-69	3.68	301
					04-30-70	6.47	632
					07-05-71	3.58	169
					08-26-72	5.01	441
					12-30-72	4.25	356
					05-16-74	4.33	365
					04-18-75	6.77	683
					06-13-76	10.52	1,570
					09-01-77	(g)	-
05536620	Mill Creek near Palos Park, IL	Lat 41°39'09", long 87°50'23", in NW¼SE¼ sec.34, T.37 N., R.12 E., Cook County, at culvert on 131st Street, 1 mile south of Palos Park. Datum of gage is 665.66 ft.	6.39	1962-77	09-24-61	[a]1.56	208
					03-11-62	.83	101
					07-20-63	.82	100
					04-06-64	[a]-.29	54
					03-17-65	.97	118
					05-12-66	2.13	330
					04-01-67	1.53	203
					08-17-68	-	[f]134
					01-29-69	.52	69
					04-30-70	1.40	181
					07-05-71	.09	38
					03-13-72	1.25	157
					12-30-72	1.29	163
					05-17-74	[c].91	110
					04-18-75	1.00	122
					03-05-76	.81	99
					09-01-77	.64	80
05536630	Mill Creek at Palos Park, IL	Lat 41°40'27", long 87°50'35", in SW¼SE¼ sec.22, T.37 N., R.12 E., Cook County, at bridge on 119th Street at Palos Park. Datum of gage is 623.56 ft. Prior to May 15, 1973, at datum 1.39 ft higher.	10.8	1961-77	09-24-61	(b)	[f]174
					03-11-62	(b)	[f]117
					07-20-63	(b)	[f]109
					04-06-64	[a]-2.42	61
					03-17-65	(b)	[f]107
					05-12-66	.51	558
					04-01-67	(b)	[f]251
					08-17-68	[a]-1.51	130
					01-29-69	(b)	[f]98
					04-30-70	.42	526
					07-05-71	(b)	[f]59
					03-13-72	[a]-1.02	188
					04-22-73	[a]-1.55	125
					05-17-74	1.44	411
					04-18-75	1.50	429
					07-21-76	1.05	309
					09-01-77	[a]-.12	130

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi²)	Period of record	Date	Gage height (feet)	Discharge (ft³/s)
		Illinois River basin--Continued					
05538300	Marley Creek near Mokena, IL	Lat 41°33'35", long 87°54'40", in SE¼SE¼ sec.36, T.36 N., R.11 E., Will County, 200 feet south of U.S. Highway 6, 0.5 mile southwest of intersection with 179th Street and 2.4 miles northwest of Mokena. Datum of gage is 664.54 ft. Prior to Sept. 30, 1973, at datum 4.51 ft lower.	9.61	1954-77	06-30-77	5.21	(*)
05538440	Spring Creek near Orland Park, IL	Lat 41°36'02", long 87°54'02", in NE¼NE¼ sec.19, T.36 N., R.12 E., Cook County, at bridge on 159th Street (State Highway 7), 2.7 miles southwest of Orland Park. Datum of gage is 688.05 ft.	1.59	1961-77	10-10-54	[a]3.49	[e]112
					09-24-61	[a]1.81	66
					03-11-62	(b)	[f]32
					07-20-63	(b)	[f]30
					06-20-64	[a].04	23
					03-17-65	.05	23
					05-12-66	2.27	78
					04-01-67	.60	56
					[c]08-17-68	(b)	[f]37
					01-21-69	.78	39
					[c]04-30-70	1.17	49
					07-05-71	(b)	[f]15
					03-13-72	.69	37
					12-30-72	1.69	62
					05-16-74	1.22	50
					04-18-75	1.05	46
					03-05-76	.54	34
					09-01-77	.72	38
05539870	West Branch Du Page River at Ontarioville, IL	Lat 41°58'42", long 88°07'59", in NW¼SE¼ sec.6, T.40 N., R.10 E., Du Page County, at culvert on U.S. Highway 20, 1.2 miles southeast of Ontarioville. Datum of gage is 770.78 ft.	10.1	1961-77	09-24-61	1.72	[d]212
					03-19-62	.56	[d]138
					[c]04-30-63	1.14	[d]100
					07-18-64	1.24	[d]147
					02-07-65	[c].27	[d]88
					05-12-66	[c]2.09	[d]295
					06-10-67	[c]3.82	[d]542
					08-17-68	[c]3.72	[d]535
					06-08-69	2.22	[d]238
					06-02-70	3.15	[d]400
					02-20-71	3.12	[d]395
					08-26-72	4.66	[d]630
					12-30-72	2.63	[d]390
					01-27-74	2.48	[d]365
					04-18-75	3.71	[d]480
					03-05-76	[c]2.90	[d]418
					09-26-77	.55	170
05539890	West Branch Du Page River near Wayne, IL	Lat 41°56'37", long 88°10'51", in NW¼NW¼ sec.23, T.40 N., R.9 E., Du Page County, at bridge on Army Trail Road, 0.2 mile west of Wayne. Datum of gage is 735.31 ft.	23.9	1961-77	09-25-61	1.04	397
					03-19-62	.46	306
					04-30-63	(b)	[f]191
					07-18-64	.63	195
					02-07-65	.34	209
					05-12-66	.80	442
					06-10-67	2.73	760
					08-17-68	1.53	638
					06-09-69	1.27	375
					06-02-70	1.27	560
					02-20-71	1.02	494
					08-26-72	1.78	726
					12-30-72	.97	482
					01-27-74	1.15	528
					04-18-75	.99	487
					03-05-76	1.16	530
					09-26-77	[a]-.12	269

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Illinois River basin--Continued					
05539950	Klein Creek at Carol Stream, IL	Lat 41°54'24", long 88°08'32", in NE¼SW¼ sec.31, T.40 N., R.10 E., Du Page County, at culvert on State Highway 64 at Carol Stream, 2.5 miles southwest of Cloverdale. Datum of gage is 739.58 ft. Prior to Sept. 30, 1972, at datum 0.40 ft higher.	8.81	1961-77	09-25-61	[c]0.06	[d]172
					06-10-62	[a]-.45	[d]107
					04-30-63	[a]-.35	[d]119
					07-18-64	.28	101
					07-14-65	[a]-.55	[d]114
					05-12-66	1.83	[d]440
					06-10-67	.33	[d]213
					08-17-68	.42	[d]224
					06-08-69	[a]-.51	[d]119
					06-02-70	[a]-.24	[d]148
					02-19-71	[a]-.27	[d]14[illegible]
					08-26-72	3.51	[d]388
					12-30-72	.32	[d]165
					01-27-74	.50	[d]186
					04-18-75	.36	[d]170
					03-05-76	1.23	[d]280
					09-26-77	[a].10	141
05540020	Winfield Creek at Winfield, IL	Lat 41°51'26", long 88°08'47", in SE¼SE¼ sec.13, T.39 N., R.9 E., Du Page County, at bridge on State Highway 38, 0.2 mile east of Winfield. Datum of gage is 718.60 ft. Prior to Sept. 30, 1970, at datum 1.15 ft lower.	6.95	1961-77	09-26-77	.55	(*)
05540030	West Branch Du Page River at West Chicago, IL	Lat 41°51'41", long 88°11'33", in NW¼SE¼ sec.15, T.39 N., R.9 E., Du Page County, at bridge on State Highway 38, 0.1 mile southeast of West Chicago. Datum of gage is 703.31 ft.	60.2	1961-77	10-10-54	[a]1.77	[e]1,260
					09-25-61	.59	758
					03-20-62	.39	688
					04-30-63	(b)	[f]415
					07-18-64	(b)	[f]550
					02-07-65	(b)	[f]460
					05-12-66	1.25	1,020
					06-10-67	1.38	1,080
					08-17-68	.56	748
					06-09-69	(b)	[f]520
					06-02-70	.51	730
					02-20-71	(b)	[f]506
					08-26-72	2.52	1,670
					12-30-72	.88	869
					01-27-74	.54	740
					04-19-75	.28	651
					03-05-76	1.02	925
					08-09-77	[a]-1.22	257
05540060	Kress Creek at West Chicago, IL	Lat 41°51'23", long 88°12'15", in NW¼NW¼ sec.22, T.39 N., R.9 E., Du Page County, at bridge at intersection of Batavia and Joliet Roads, 0.5 mile southwest of West Chicago. Datum of gage is 705.44 ft.	18.1	1961-77	09-25-61	.94	192
					03-19-62	.86	175
					04-30-63	.62	131
					07-18-64	2.46	637
					02-07-65	.78	159
					05-12-66	1.59	356
					06-10-67	1.83	426
					08-17-68	.40	203
					01-23-69	.03	150
					06-02-70	.38	200
					02-19-71	.48	215
					08-26-72	.85	278
					12-30-72	.90	288
					05-16-74	.87	282
					04-18-75	1.27	361
					03-05-76	1.40	389
					08-09-77	.34	194
05540080	Spring Brook at Wheaton, IL	Lat 41°51'02", long 88°06'53", in NE¼SE¼ sec.20, T.39 N., R.10 E., Du Page County, at culvert on Warrenville Road at Wheaton. Datum of gage is 724.13 ft.	2.10	1961-77	09-25-61	1.88	[d]158
					03-19-62	(b)	[f]70
					[c]04-30-63	[c].66	[d]103
					07-18-64	1.07	[d]120
					07-14-65	1.64	[d]147
					05-12-66	1.59	[d]144
					06-10-67	2.03	166
					08-17-68	3.02	[d]222
					[c]09-05-69	2.23	177
					06-02-70	1.81	[d]152
					07-05-71	1.64	[d]147
					08-26-72	7.10	[d]552
					04-22-73	1.81	[d]152
					01-27-74	.90	[d]113
					04-18-75	2.13	[d]172
					03-05-76	1.95	[d]162
					08-09-77	.19	84

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Illinois River basin--Continued					
05540110	Ferry Creek at Warrenville, IL	Lat 41°49'13", long 88°11'35", in SW¼NE¼ sec.34, T.39 N., R.9 E., Du Page County, at bridge on State Highway 56 at Warrenville. Datum of gage is 699.27 ft.	4.27	1961-77	09-25-61	1.51	81
					03-19-62	1.32	71
					04-30-63	.25	40
					07-18-64	3.34	214
					02-07-65	.76	45
					05-12-66	1.86	102
					06-10-67	1.96	108
					08-17-68	.23	60
					09-05-69	1.33	72
					[c]06-02-70	[c]1.21	66
					02-19-71	-	[f]62
					08-26-72	2.94	180
					04-22-73	1.38	74
					05-16-74	1.71	93
					04-18-75	1.38	74
					03-05-76	2.34	134
					08-09-77	1.09	60
05540140	East Branch Du Page River near Bloomingdale, IL	Lat 41°56'06", long 88°03'29", in SW¼SE¼ sec.23, T.40 N., R.10 E., Du Page County, at culvert on Army Trail Road, 2 miles southeast of Bloomingdale. Datum of gage is 705.35 ft.	3.03	1961-77	09-14-61	[c].73	[d]50
					03-19-62	[c].43	[d]38
					04-30-63	[c]-.22	[d]18
					04-06-64	[c]-.44	[d]14
					04-01-65	[c].00	[d]24
					05-12-66	[c]1.22	[d]77
					06-10-67	[c]1.08	[d]68
					08-17-68	[c].50	[d]40
					06-08-69	[c].48	[d]40
					06-02-70	[c]1.28	[d]81
					02-19-71	[c].16	[d]28
					08-26-72	[c]2.58	[d]204
					12-30-72	[c]1.06	[d]67
					05-16-74	[c].85	[d]56
					04-18-75	[c]1.62	105
					[c]07-21-76	[c]1.29	[d]81
					09-26-77	1.43	91
05540150	East Branch Du Page River at Glen Ellyn, IL	Lat 41°53'24", long 88°03'01", in SW¼SW¼ sec.1, T.39 N., R.10 E., Du Page County, at bridge on St. Charles Road, 0.3 mile east of Glen Ellyn. Datum of gage is 687.66 ft. Prior to Apr. 15, 1971, at datum 1.00 ft higher.	14.2	1961-77	09-14-61	[a]-.66	207
					03-19-62	(b)	-
					04-30-63	[a]-1.76	82
					04-06-64	(b)	[f]64
					04-01-65	(b)	[f]107
					05-12-66	.83	468
					06-10-67	[a]-.04	303
					08-17-68	[a]-.57	220
					06-08-69	[a]-.52	227
					06-02-70	.25	354
					02-19-71	(b)	[f]145
					08-26-72	3.58	912
					12-30-72	.81	278
					01-27-74	.58	242
					04-18-75	.96	[d]303
					03-05-76	1.05	[d]318
					09-26-77	(b)	-
05540160	East Branch Du Page River near Downers Grove, IL	Lat 41°49'54", long 88°02'51", in SE¼SW¼ sec.25, T.39 N., R.10 E., Du Page County, at bridge on State Highway 56, 2.2 miles northwest of Downers Grove. Datum of gage is 672.21 ft.	27.2	1961-76 (discontinued)	10-10-54	[a]4.57	[e]1,590
					09-12-61	2.66	652
					03-19-62	(b)	-
					07-20-63	.84	299
					04-06-64	.29	227
					09-22-65	.59	265
					05-12-66	3.59	993
					06-10-67	2.74	675
					08-17-68	2.91	728
					06-09-69	1.63	420
					06-02-70	2.90	725
					02-19-71	[a]1.00	321
					08-26-72	4.23	1,720
					12-30-72	3.08	786
					01-27-74	-	[f]530
					04-19-75	2.69	661
					03-05-76	2.37	575

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Illinois River basin--Continued					
05540190	St. Joseph Creek at Belmont, IL	Lat 41°47'31", long 88°02'15", in NW¼SE¼ sec.12, T.38 N., R.10 E., Du Page County, at bridge on Belmont Avenue at Belmont. Datum of gage is 687.04 ft.	8.80	1961-77	09-14-61	3.76	[d]583
					03-19-62	.75	[d]139
					07-20-63	3.53	[d]542
					04-06-64	.61	[d]123
					07-14-65	1.66	[d]253
					05-12-66	3.27	[d]497
					06-10-67	2.15	[d]314
					08-17-68	3.68	[d]569
					06-08-69	1.61	[d]247
					[c]06-02-70	2.21	[d]330
					07-05-71	1.76	[d]267
					08-26-72	4.08	[d]642
					12-30-72	2.97	[d]448
					05-16-74	2.30	[d]344
					04-18-75	3.96	[d]620
					03-05-76	1.38	[d]216
					06-30-77	[a]1.35	213
05540240	Prentiss Creek near Lisle, IL	Lat 41°46'17", long 88°04'11", in SW¼SW¼ sec.14, T.38 N., R.10 E., Du Page County, at bridge on State Highway 53, 1 mile south of Lisle. Datum of gage is 660.29 ft.	6.48	1961-77	09-14-61	4.28	532
					03-19-62	1.39	152
					07-20-63	3.65	441
					07-18-64	.60	92
					09-22-65	2.95	351
					05-12-66	1.51	163
					06-10-67	1.65	177
					08-17-68	2.16	238
					07-19-69	1.76	189
					[c]06-02-70	1.12	128
					02-19-71	1.45	157
					08-26-72	3.82	465
					12-30-72	1.53	165
					05-16-74	1.89	204
					04-18-75	3.52	423
					03-05-76	.90	112
					06-30-77	1.01	120
05541750	Mazon River tributary near Gardner, IL	Lat 41°09'36", long 88°20'35", in SE¼ sec.18, T.31 N., R.8 E., Grundy County, on Illinois Central Gulf RR., 2.7 miles southwest of Gardner.	4.52	1959-69, 1970-74††, 1975-77	09-01-77	13.80	125
05548100	Nippersink Creek at Greenwood, IL	Lat 42°23'16", long 88°23'24", in SW¼SW¼ sec.11, T.45 N., R.7 E., McHenry County, at bridge on Greenwood Road at south edge of Greenwood. Datum of gage is 819.78 ft.	83.2	1965-77	03-29-77	-.62	(†)
05548210	North Branch Nippersink Creek near Solon Mills, IL	Lat 42°27'03", long 88°18'01", in SE¼NE¼ sec.21, T.46 N., R.8 E., McHenry County, at bridge on U.S. Highway 12, 1.5 miles northwest of Solon Mills. Datum of gage is 771.55 ft.	67.7	1965-77	03-29-77	.79	(†)
05549700	Mutton Creek at Island Lake, IL	Lat 42°17'05", long 88°10'47", in NE¼NE¼ sec.21, T.44 N., R.9 E., Lake County, at bridge on Darrell Road, 0.8 mile northeast of Island Lake and 2.5 miles northwest of Wauconda. Datum of gage is 753.52 ft.	10.8	1962-76 (discontinued)	04-01-60	[a]2.34	[e]378
					03-19-62	1.62	172
					04-30-63	.27	20
					06-15-64	.35	24
					02-06-65	1.30	114
					02-10-66	1.28	111
					06-11-67	.69	45
					08-17-68	.72	47
					06-09-69	1.19	98
					06-02-70	.58	37
					02-19-71	1.99	263
					09-14-72	1.01	75
					04-22-73	1.07	82
					05-16-74	.83	57
					04-27-75	.52	33
					03-04-76	1.83	220

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi²)	Period of record	Date	Gage height (feet)	Discharge (ft³/s)
		Illinois River basin--Continued					
05549850	Flint Creek near Fox River Grove, IL	Lat 42°12'40", long 88°10'23", in NW¼ sec.15, T.43 N., R.9 E., Lake County, at bridge on Kelsey Road, 2.5 miles northeast of Fox River Grove. Datum of gage is 741.44 ft.	37.0	1962-76 (discontinued)	04-01-60	[a]2.92	[e]492
					03-19-62	1.05	[d]239
					03-06-63	.84	[h]170
					07-18-64	.44	[d]175
					02-06-65	.57	[d]188
					02-10-66	1.23	[d]260
					06-11-67	1.00	[d]233
					08-17-68	.82	[d]224
					06-09-69	1.45	[d]286
					06-02-70	1.46	[d]287
					02-19-71	2.00	[d]356
					09-18-72	1.04	[d]238
					04-22-73	1.35	[d]274
					05-16-74	1.00	[d]233
					04-27-75	.89	[d]221
					03-05-76	1.30	[d]268
05549890	Spring Creek at Fox River Grove, IL	Lat 42°11'14", long 88°13'40", in SW¼ sec.19, T.43 N., R.9 E., McHenry County, at bridge on Plum Tree Road, 0.9 mile southwest of Fox River Grove. Datum of gage is 743.48 ft. Prior to May 12, 1976, at datum 0.63 ft lower.	24.8	1962-77	03-29-77	[a]-2.21	(†)
05549900	Fox River tributary near Cary, IL	Lat 42°11'48", long 88°15'54", in NW¼NE¼ sec.23, T.43 N., R.8 E., McHenry County, at culvert on Cary-Algonquin Road, 1.3 miles southwest of Cary. Datum of gage is 858.14 ft.	.07	1956-64, 1965-74††, 1975-77	04-21-77	12.94	2.7
05550240	Pingree Creek near Udina, IL	Lat 42°03'22", long 88°24'20", in NW¼NE¼ sec.11, T.41 N., R.7 E., Kane County, at bridge on U.S. Highway 20, 1.7 miles northwest of Udina. Datum of gage is 899.08 ft.	8.36	1962-77	03-29-77	.65	(†)
05550280	Tyler Creek near Gilberts, IL	Lat 42°04'21", long 88°21'26", in NE¼SE¼ sec.36, T.42 N., R.7 E., Kane County, at bridge on Big Timber Road, 2.3 miles southeast of Gilberts. Datum of gage is 858.61 ft.	28.7	1962-77	-	(c)	-
05550300	Tyler Creek at Elgin, IL	Lat 42°03'21", long 88°18'14", in SE¼SE¼ sec.3, T.41 N., R.8 E., Kane County, at bridge on Big Timber Road in Elgin. Datum of gage is 752.36 ft.	38.9	1962-77	03-19-62	.51	303
					04-30-63	[a]-1.55	74
					07-18-64	(b)	-
					04-07-65	.96	368
					02-10-66	1.12	392
					06-10-67	.72	333
					08-17-68	.11	251
					01-23-69	.62	318
					06-02-70	.53	306
					02-19-71	.89	358
					09-18-72	1.46	454
					04-22-73	1.63	488
					05-16-74	.57	311
					04-27-75	.19	261
					03-05-76	.66	324
					03-29-77	(b)	-
05550430	East Branch Poplar Creek near Palatine, IL	Lat 42°04'02", long 88°06'41", in SW¼SE¼ sec.31, T.42 N., R.10 E., Cook County, at culvert on Central Road, 400 ft north of Northwest Tollway, 0.5 mile east of Freeman Road and about 4.5 miles southwest of Palatine. Datum of gage is 792.00 ft.	2.63	1961-77	09-25-61	1.04	72
					03-19-62	1.38	88
					04-30-63	.29	41
					07-18-64	[a]-.26	22
					04-06-65	.78	61
					02-10-66	1.48	92
					06-10-67	4.19	275
					08-17-68	-	[f]71
					06-09-69	1.38	88
					06-02-70	1.22	80
					02-17-71	1.13	76
					08-26-72	1.56	96
					04-22-73	2.72	164
					01-27-74	1.74	106
					04-27-75	1.34	86
					03-05-76	1.89	114
					03-29-77	.83	63

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Illinois River basin--Continued					
05550450	Poplar Creek near Ontarioville, IL	Lat 42°02'48", long 88°09'20", in NE¼NW¼ sec.13, T.41 N., R.9 E., Cook County, at culvert on State Highway 58, 0.6 mile west of Barrington Road and about 4 miles north of Ontarioville. Datum of gage is 775.80 ft.	16.7	1961-77	09-25-61	2.23	[d]200
					03-19-62	2.75	[d]275
					04-30-63	1.55	[d]118
					07-18-64	1.82	[d]146
					04-06-65	2.24	[d]200
					02-10-66	2.65	[d]263
					06-10-67	3.57	[d]410
					08-17-68	-	[f]217
					[c]06-09-69	[c]2.36	[d]137
					06-02-70	2.68	[d]190
					02-17-71	2.62	[d]179
					09-18-72	3.14	[d]290
					04-22-73	3.45	[d]374
					01-27-74	2.99	[d]254
					04-19-75	2.30	[d]128
					03-05-76	3.17	[d]297
					03-29-77	2.17	111
05550470	Poplar Creek tributary near Bartlett, IL	Lat 42°01'28", long 88°12'10", in SE¼NE¼ sec.21, T.41 N., R.9 E., Cook County, at culvert on State Highway 59, about 3 miles northwest of Bartlett. Datum of gage is 773.37 ft.	4.55	1961-77	09-24-61	.84	97
					03-19-62	.41	75
					04-30-63	.34	72
					07-18-64	1.87	167
					04-06-65	1.35	128
					05-12-66	1.83	164
					06-10-67	4.92	565
					08-17-68	1.57	144
					[c]07-19-69	1.94	173
					06-02-70	2.51	226
					02-17-71	2.26	201
					08-26-72	2.79	255
					04-22-73	2.72	248
					01-27-74	1.74	156
					04-18-75	1.76	158
					04-26-76	1.17	116
					03-29-77	.93	102
05551030	Brewster Creek at Valley View, IL	Lat 41°58'22", long 88°16'50", in SW¼SW¼ sec.1, T.40 N., R.8 E., Kane County, at bridge on State Highway 25 at Valley View, 2.5 miles southeast of South Elgin. Datum of gage is 710.08 ft.	14.0	1962-77	03-19-62	[a]-.25	125
					04-30-63	(b)	[f]73
					04-06-64	(b)	[f]56
					02-07-65	.18	[h]105
					02-10-66	.05	201
					06-10-67	1.65	687
					08-17-68	.20	226
					06-08-69	(b)	[f]158
					06-02-70	.56	292
					02-19-71	1.01	408
					09-17-72	1.62	671
					04-22-73	.17	221
					05-16-74	1.01	408
					03-18-75	.71	325
					03-05-76	.47	275
					03-29-77	(b)	-
05551050	Norton Creek near Wayne, IL	Lat 41°56'54", long 88°16'17", in NW¼SE¼ sec.13, T.40 N., R.8 E., Kane County, at culvert on Dunham Road, 1.6 miles west of Wayne. Datum of gage is 731.54 ft. Prior to July 19, 1963, at datum 0.50 ft lower.	7.35	1962-77	[c]03-19-62	1.70	48
					04-30-63	1.36	33
					04-06-64	.64	25
					02-07-65	1.91	[h]43
					05-12-66	2.43	115
					06-10-67	4.92	617
					08-17-68	1.96	85
					06-08-69	1.65	69
					06-02-70	3.37	214
					02-19-71	2.52	122
					09-18-72	2.16	97
					[c]04-22-73	[d]2.31	106
					[c]05-16-74	[d]2.24	102
					03-18-75	2.00	88
					03-05-76	2.76	142
					03-29-77	.90	35

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Illinois River basin--Continued					
05551060	Norton Creek near St. Charles, IL	Lat 41°56'42", long 88°18'22", in SW¼SE¼ sec.15, T.40 N., R.8 E., Kane County, at bridge on State Highway 25, 2 miles north of St. Charles. Datum of gage is 692.66 ft. Oct. 2, 1961, to July 17, 1963, at datum 1.13 ft lower; July 18, 1963, to Dec. 1, 1967, at datum 0.44 ft lower.	11.5	1962-77	03-19-62	2.44	84
					04-30-63	1.86	54
					04-06-64	.95	42
					02-07-65	1.58	75
					05-12-66	2.00	210
					06-10-67	[a]7.33	954
					08-17-68	1.30	150
					06-08-69	1.16	124
					06-02-70	2.90	264
					02-19-71	2.41	157
					09-18-72	2.35	152
					04-22-73	2.10	134
					[c]05-16-74	[d]1.54	98
					03-18-75	2.34	152
					03-05-76	2.21	142
					09-26-77	.59	47
05551100	Ferson Creek at Wasco, IL	Lat 41°57'10", long 88°24'29", in NE¼NW¼ sec.14, T.40 N., R.7 E., Kane County, at culvert on Burlington Road, 1 mile north of Wasco. Datum of gage is 800.63 ft. Prior to May 2, 1974, at datum 1.00 ft higher.	6.13	1962-77	-	(c)	-
05551140	Bowes Creek at Bowes, IL	Lat 42°00'14", long 88°25'34", in SE¼NW¼ sec.26, T.41 N., R.7 E., Kane County, at bridge on Crawford Road, 1.9 miles west of Bowes. Datum of gage is 866.82 ft.	5.43	1961-77	02-24-77	.29	(*)
05551180	Ferson Creek near Fox River Heights, IL	Lat 41°57'20", long 88°21'22", in NW¼NW¼ sec.17, T.40 N., R.8 E., Kane County, at bridge on Bolcum Road, 2.9 miles southwest of Fox River Heights. Datum of gage is 746.20 ft.	46.4	1962-77	02-24-77	1.18	(*)
05551300	Mill Creek near Wasco, IL	Lat 41°54'22", long 88°24'16", in SE¼NW¼ sec.35, T.40 N., R.7 E., Kane County, at bridge on State Highway 38, 2.2 miles south of Wasco. Datum of gage is 764.75 ft.	8.14	1961-77	09-26-77	1.18	(*)
05551320	Mill Creek near LaFox, IL	Lat 41°51'53", long 88°22'23", in NE¼NW¼ sec.18, T.39 N., R.8 E., Kane County, at bridge on Kaneville Road, 2.5 miles southeast of LaFox and 3.5 miles northwest of Batavia. Datum of gage is 705.04 ft.	20.5	1961-77	03-29-77	.35	(*)
05551520	Indian Creek near North Aurora, IL	Lat 41°48'50", long 88°16'26", in SE¼SW¼ sec.36, T.39 N., R.8 E., Kane County, at bridge on State Highway 56, 2.5 miles east of North Aurora. Datum of gage is 728.68 ft.	5.21	1961-77	09-25-61	.81	158
					03-19-62	.56	125
					04-30-63	[a]-.58	58
					07-18-64	.16	84
					02-07-65	[a]-.33	65
					05-12-66	1.33	262
					06-10-67	1.17	224
					08-17-68	[a]-.67	88
					07-27-69	1.25	171
					06-02-70	.74	84
					02-19-71	.54	80
					[c]08-26-72	1.33	224
					12-30-72	.81	92
					05-16-74	1.43	216
					[c]04-18-75	1.32	188
					03-05-76	.99	118
					03-29-77	.20	40

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	 Gage height (feet)	 Discharge (ft^3/s)
		Illinois River basin--Continued					
05551530	Indian Creek at Aurora, IL	Lat 41°45'59", long 88°18'24", in NW¼NE¼ sec.22, T.38 N., R.8 E., Kane County, at culvert on State Highway 25 at Aurora. Datum of gage is 634.80 ft.	16.7	1961-77	09-25-61	[d]2.47	436
					03-19-62	[d]1.07	270
					04-30-63	[d]3.13	507
					07-18-64	[d]2.44	433
					02-07-65	[d]1.94	375
					05-12-66	[d]4.59	658
					06-10-67	[d]4.93	694
					08-17-68	[d]2.85	478
					06-08-69	[d]1.96	377
					[c]06-02-70	[d]3.79	575
					02-17-71	[d]2.93	486
					08-26-72	[d]5.39	742
					12-30-72	[d]3.17	511
					05-16-74	[d]4.48	647
					[c]04-18-75	[d]3.99	596
					03-05-76	[d]3.95	592
					09-26-77	1.45	316
05551620	Blackberry Creek near Kaneville, IL	Lat 41°48'17", long 88°27'34", in SW¼NE¼ sec.5, T.38 N., R.7 E., Kane County, at bridge on State Highway 47, about 3 miles southeast of Kaneville. Datum of gage is 697.47 ft. Prior to May 3, 1973, at datum 1.26 ft higher.	21.6	1961-77	09-26-61	.27	384
					03-19-62	.81	466
					05-01-63	.30	388
					04-22-64	(b)	-
					02-08-65	1.24	536
					05-12-66	1.32	550
					06-10-67	1.02	499
					08-17-68	(b)	-
					07-27-69	[a].97	306
					06-30-70	-	558
					02-19-71	[a]1.01	311
					06-17-72	[a]1.31	352
					04-23-73	[a].94	302
					05-16-74	3.09	640
					04-19-75	1.24	345
					03-05-76	1.66	403
					07-01-77	.04	196
05551640	Blackberry Creek near Sugar Grove, IL	Lat 41°46'30", long 88°24'47", in SW¼NW¼ sec.14, T.38 N., R.7 E., Kane County, at bridge on State Highway 56, 1.9 miles northeast of Sugar Grove. Datum of gage is 672.01 ft.	29.6	1961-77	07-01-77	.11	(†)
05551660	Lake Run near Mooseheart, IL	Lat 41°48'40", long 88°24'09", in SW¼SE¼ sec.35, T.39 N., R.7 E., Kane County, at bridge on Tanner Road, 2.5 miles south of Bald Mound and 4 miles southwest of Mooseheart. Datum of gage is 682.00 ft.	11.0	1961-77	07-01-77	[a]-1.97	(†)
05551800	Fox River tributary No. 2 near Fox, IL	Lat 41°36'28", long 88°28'43", in NE¼SW¼ sec.7, T.36 N., R 7 E., Kendall County, at culvert on State Highway 71, 1.5 miles southeast of Fox and 2.5 miles southwest of Yorkville.	.45	1961-68, 1969-74††, 1975-77	09-01-77	10.73	11
05551900	East Branch Big Rock Creek near Big Rock, IL	Lat 41°46'04", long 88°34'11", in NE¼SE¼ sec.17, T.38 N., R.6 E., Kane County, at bridge on U.S. Highway 30, 1.2 miles northwest of Big Rock. Datum of gage is 700.43 ft. Prior to Sept. 21, 1970, at datum 0.28 ft lower.	32.6	1965-77	02-06-65	1.76	680
					02-10-66	2.13	795
					04-01-67	1.72	668
					08-17-68	-	[f]243
					01-23-69	1.27	542
					06-02-70	1.30	550
					02-19-71	.82	498
					06-15-72	3.46	1,410
					04-22-73	1.69	744
					05-16-74	3.80	1,580
					04-18-75	.40	398
					03-05-76	.66	458
					02-24-77	.33	382

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Illinois River basin--Continued					
05551930	Welch Creek near Big Rock, IL	Lat 41°45'36", long 88°30'38", in SE¼NE¼ sec.23, T.38 N., R.6 E., Kane County, at bridge on Granart Road, 2 miles southeast of Big Rock. Datum of gage is 684.11 ft.	22.1	1965-77	02-06-65	[c]2.30	334
					02-10-66	[c]2.41	398
					04-01-67	[c]1.81	306
					08-17-68	[c].61	155
					01-23-69	[c]1.87	314
					06-02-70	2.13	354
					02-19-71	1.75	297
					06-15-72	3.33	563
					04-22-73	2.00	334
					05-16-74	3.98	694
					04-18-75	.90	187
					03-05-76	1.71	291
					03-29-77	.48	141
05554000	North Fork Vermilion River near Charlotte, IL	Lat 40°50'08", long 88°17'58", in SE¼SE¼ sec.4, T.27 N., R.8 E., Livingston County, at Foreman highway bridge, 1.2 miles northwest of Charlotte, 5.5 miles north of Chatsworth. Datum of gage is 638.00 ft.	186	1943-62**, 1963-77	08-10-77	6.37	1,220
05557000	West Bureau Creek at Wyanet, IL	Lat 41°21'54", long 89°34'08", in NE corner of sec.21, T.16 N., R.8 E., Bureau County, on left bank at upstream side of bridge on U.S. Highways 6 and 34, 0.5 mile east of Wyanet. Datum of gage is 573.14 ft.	86.7	1936-66**, 1967-77	-	(b)	-
05557100	West Bureau Creek tributary near Wyanet, IL	Lat 41°18'40", long 89°35'20", in SE¼ sec.5, T.15 N., R.8 E., Bureau County, at culvert on county road, 3.6 miles south of Wyanet.	.33	1956-63, 1964-74††, 1975-77	02-24-77	20.66	[h]22
05557500	East Bureau Creek near Bureau, IL	Lat 41°20'06", long 89°22'53", in NW¼NE¼ sec.31, T.16 N., R.10 E., Bureau County, on left bank at downstream side of bridge, 0.5 mile downstream from Brush Creek, 2.5 miles upstream from mouth, and 3.5 miles north of Bureau. Datum of gage is 484.45 ft.	99.0	1936-66**, 1967-77	06-30-77	10.78	1,000
05558075	Coffee Creek tributary near Hennepin, IL	Lat 41°14'35", long 89°18'25", near center of sec.14, T.32 N., R.2 W., Putnam County, at culvert on county road, 1.9 miles southeast of Hennepin.	.22	1956-63, 1964-74††, 1975-77	05-05-77	21.09	155
05558500	Crow Creek (West) near Henry, IL	Lat 41°09'00", long 89°25'00", in SW¼SE¼ sec.36, T.14 N., R.9 E., Putnam County, on right bank at downstream side of bridge No. 7, 2 miles upstream from Sugar Grove Creek, 2.4 miles west of State Highway 29, and 3.6 miles northwest of Henry. Datum of gage is 520.61 ft.	56.2	1949-71**, 1972-77	08-07-77	7.34	2,690
05559000	Gimlet Creek at Sparland, IL	Lat 41°01'35", long 89°26'20", in SE¼NW¼ sec.14, T.12 N., R.9 E., Marshall County, on left bank 120 ft upstream from bridge on State Highway 29 and 200 ft upstream from Rock Island RR. bridge in Sparland. Datum of gage is 454.55 ft.	5.66	1946-47**, 1950-71**, 1972-77	08-07-77	4.73	669
05559500	Crow Creek near Washburn, IL	Lat 40°57'15", long 89°18'30", in SW¼ sec.23, T.29 N., R.2 W., Marshall County, on left bank at downstream side of highway bridge, 200 ft downstream from Atchison, Topeka and Santa Fe RR. bridge, 2.0 miles downstream from unnamed tributary, and 2.5 miles northwest of Washburn. Datum of gage is 557.70 ft.	115	1945-71**, 1972-77	08-07-77	5.97	1,440

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Illinois River basin--Continued					
05563000	Kickapoo Creek near Kickapoo, IL	Lat 40°48'00", long 89°48'00", in SW¼SE¼ sec.34, T.10 N., R.6 E., Peoria County, at bridge on U.S. Highway 150, 0.8 mile upstream from mouth of the West Fork of Kickapoo Creek and 2.5 miles northwest of Kickapoo. Datum of gage is 514.85 ft.	119	1945-62**, 1963-77	-	(g)	-
05563100	Kickapoo Creek tributary near Kickapoo, IL	Lat 40°47'40", long 89°46'30", in NW¼ sec.1, T.9 N., R.6 E., Peoria County, at culvert on U.S. Highway 150, 1.2 miles west of Kickapoo.	.07	1956-63, 1964-66††, 1967-77	08-06-77	17.82	(†)
05563500	Kickapoo Creek at Peoria, IL	Lat 40°40'52", long 89°39'19", in NE¼NW¼ sec.13, T.8 N., R.7 E., Peoria County, on right bank at downstream side of pier of bridge on State Highway 116, 0.5 mile west of Peoria, 1.5 miles downstream from Dry Run, and 4 miles upstream from mouth. Datum of gage is 448.37 ft.	297	1942-71**, 1972-77	09-18-77	12.75	4,640
05567000	Panther Creek near El Paso, IL	Lat 40°46'05", long 89°04'30", in center of sec.26, T.27 N., R.1 E., Woodford County, at bridge on county road just below East Branch Panther Creek and 3.8 miles northwest of El Paso. Datum of gage is 658.86 ft.	93.9	1950-60**, 1961-77	08-07-77	8.25	1,460
05568000	Mackinaw River near Green Valley, IL	Lat 40°26'43", long 89°39'10", in SE¼NW¼ sec.15, T.23 N., R.5 E., Tazewell County, at bridge on State Highway 29, 3 miles north of Green Valley, and 13 miles upstream from mouth. Datum of gage is 477.10 ft. Prior to Sept. 30, 1952, at datum 2.00 ft higher.	1,089	1921-56**, 1957-58, 1960-77	09-16-77	10.59	6,970
05569825	Cedar Creek tributary at St. Augustine, IL	Lat 40°43'20", long 90°24'40", in E½ sec.32, T.9 N., R.1 E., Knox County, at culvert on Burlington Northern, 0.1 mile north of St. Augustine.	4.06	1956-62, 1963-70††, 1971-77	03-04-77	14.73	197
05574000	South Fork Sangamon River near Nokomis, IL	Lat 39°21'12", long 89°15'05", in NE¼SE¼ sec.36, T.11 N., R.2 W., Christian County, on right bank at downstream side of highway bridge, 0.7 mile upstream from small tributary and 4.0 miles northeast of Nokomis. Datum of gage is 641.35 ft.	11.0	1951-75**, 1976-77	06-24-77	11.65	2,030
05575500	South Fork Sangamon River at Kincaid, IL	Lat 39°34'44", long 89°23'31", in SW¼NE¼ sec.14, T.13 N., R.3 W., Christian County, at bridge on State Highway 104, 1 mile southeast of Kincaid. Datum of gage is 538.65 ft.	562	1917-27**, 1929-30**, 1933**, 1945-61**, 1962-77	05-08-77	18.45	3,370
05576500	Sangamon River at Riverton, IL	Lat 39°50'34", long 89°32'52", in NE¼ sec.16, T.16 N., R.4 W., Sangamon County, at bridge on former U.S. Highway 36 at Riverton, 4.5 miles downstream from South Fork. Datum of gage is 508.38 ft.	2,618	1908-12**, 1915-27**, 1929-31**, 1933-56**, 1957-77	05-08-77	23.49	29,000
05577700	Sangamon River tributary at Andrew, IL	Lat 39°53'45", long 89°38'50", near center of sec.27, T.17 N., R.5 W., Sangamon County, at culvert on Andrew road, 0.5 mile west of Andrew.	1.50	1956-60, 1961-65††, 1966-71, 1972-74††, 1975-77	05-06-77	11.59	66

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Illinois River basin--Continued					
05580500	Kickapoo Creek near Lincoln, IL	Lat 40°11'30", long 89°21'40", in NE¼NW¼ sec.18, T.20 N., R.2 W., Logan County, on left bank at downstream side of highway bridge 1,000 ft upstream from Illinois Terminal Railroad, 3 miles north of Lincoln, and 7.5 miles upstream from mouth. Datum of gage is 557.08 ft.	306	1945-71**, 1972-77	05-06-77	13.67	6,600
05581500	Sugar Creek near Hartsburg, IL	Lat 40°13'20", long 89°24'12", in SE¼SW¼ sec.35, T.21 N., R.3 W., Logan County, on right bank at downstream side of bridge on county road, 0.4 mile upstream from State Highway 121, 2.6 miles southeast of Hartsburg, 4.1 miles northwest of Lincoln, and 6.6 miles downstream from West Fork. Datum of gage is 548.70 ft.	333	1945-71**, 1972-77	05-06-77	14.26	12,700
05582500	Crane Creek near Easton, IL	Lat 40°14'46", long 89°51'40", in NE¼NW¼ sec.26, T.21 N., R.7 W., Mason County, on right downstream wingwall of county road bridge, 0.1 mile downstream from confluence of Hardin and Central ditches, 1.2 miles upstream from Samuels ditch, and 1.2 miles northwest of Easton. Datum of gage is 486.78 ft.	26.5	1950-75**, 1976-77	05-06-77	6.67	317
05585220	Indian Creek tributary near Sinclair, IL	Lat 39°48'42", long 90°06'15", in NW¼ sec.27, T.16 N., R.9 W., Morgan County, at culvert on Illinois Central Gulf RR., 1.0 mile northeast of Sinclair.	3.58	1956-61, 1962-68††, 1969-77	05-06-77	19.42	920
05586000	North Fork Mauvaise Teere Creek near Jacksonville, IL	Lat 39°45'38", long 90°08'07", in SE¼NW¼ sec.8, T.15 N., R.9 W., Morgan County, on left bank at downstream side of county road bridge, 2.5 miles north of Arnold, 4.5 miles upstream from mouth, and 6 miles east of Jacksonville. Datum of gage is 579.27 ft.	21.9	1950-75**, 1976-77	05-06-77	11.62	4,700
05586200	Illinois River tributary at Florence, IL	Lat 39°37'55", long 90°37'05", in N½ sec.15, T.5 S., R.2 W., Pike County, at culvert on U.S. Highway 36, 0.7 mile northwest of Florence.	.49	1956-60, 1961-68††, 1969-77	05-06-77	21.22	556
05586500	Hurricane Creek near Roodhouse, IL	Lat 39°29'20", long 90°25'00", in NE¼ sec.15, T.12 N., R.12 W., Greene County, on left bank 150 ft downstream from bridge on State Highway 106, 2 miles west of Roodhouse. Datum of gage is 597.16 ft.	2.30	1951-75**, 1976-77	05-06-77	9.45	360
05586850	Bear Creek tributary near Reeders, IL	Lat 39°17'40", long 90°01'05", in SE¼ sec.19, T.10 N., R.8 W., Macoupin County, at culvert on State Highway 108, 1.5 miles southeast of Reeders.	.02	1956-60, 1961-68††, 1969-77	03-28-77	17.18	6.7
		Cahokia Creek basin					
05587850	Cahokia Creek tributary near Carpenter, IL	Lat 38°52'40", long 89°54'30", in SE¼SE¼ sec.18, T.5 N., R.7 W., Madison County, at weir on Michael L. Zeisset Farm, 1.2 miles southwest of Carpenter.	.45	1956-59, 1960-61††, 1962-77	03-28-77	3.69	93

See footnotes at end of table, p. 385.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft³/s)
		Kaskaskia River basin					
05591750	Stringtown Branch tributary near Lake City, IL	Lat 39°46'15", long 88°43'10", in SE¼ sec.2, T.15 N., R.4 E., Moultrie County, at culvert on State Highways 32 and 133, 1.2 miles north of Lake City.	0.70	1961-77	05-06-77	13.73	60
05592700	Hurricane Creek tributary near Witt, IL	Lat 39°13'00", long 89°15'15", in SE¼ sec.13, T.9 N., R.2 W., Montgomery County, at culvert on county road, 5.9 miles southeast of Witt.	.14	1956-57, 1958-61††, 1962-77	03-12-77	13.02	89
		Sexton Creek basin					
05599640	Green Creek tributary near Jonesboro, IL	Lat 37°27'55", long 89°18'40", in NE¼ sec.22, T.12 S., R.2 W., Union County, at culvert on State Highway 146, 2.5 miles northwest of Jonesboro.	.43	1956-59, 1960-66††, 1967-77	03-27-77	16.74	(†)
		Cache River basin					
05600000	Big Creek near Wetaug, IL	Lat 37°19'00", long 89°07'55", in SW¼ sec.5, T.14 S., R.1 E., Pulaski County, on left bank 300 ft upstream from highway bridge, 1 mile upstream from Little Creek, and 2 miles southeast of Wetaug. Datum of gage is 336.86 ft.	32.2	1941-71**, 1972-77	03-28-77	14.08	2,270

** Continuous-record gaging station.
† Discharge not determined.
†† Continuous stage record, data unpublished.
a From floodmark.
b Peak stage did not reach bottom of gage.
c Corrected.
d Revised.
e Isolated historic peak, not part of systematic record.
f Estimated.
g Gage removed because of construction.
h Peak discharge affected by backwater.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977

Station No.	Station name	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Wabash River basin				
03336975	Saline Branch near Urbana, IL	Lat 40°09'02", long 88°12'54", in SW¼NW¼ sec.32, T.20 N., R.9 E., Champaign County, at bridge on North Lincoln Avenue, 1.6 miles north of Urbana.	52.4	-	05-24-77	22
					06-22-77	4.4
					08-08-77	141
					08-11-77	171
03337300	Boneyard Creek at Vine Street at Urbana, IL	Lat 40°06'57", long 88°12'18", in SW¼SE¼ sec.8, T.19 N., R.9 E., Champaign County, at culvert on Vine Street in Urbana.	7.06	-	05-24-77	3.6
					06-22-77	19
					08-06-77	76
03343440	Embarras River at Hugo, IL	Lat 39°45'09", long 88°08'49", in NW¼NE¼ sec.13, T.15 N., R.9 E., Douglas County, at Hugo and at mile 158.4.	305	1971-76	10-19-76	2.4
					12-06-76	3.2
					01-12-77	.16
					02-23-77	84
					03-25-77	625
					05-13-77	497
					06-23-77	37
					07-29-77	4.5
					09-01-77	39
03343460	Brushy Fork at Brushy Fork, IL	Lat 39°44'14", long 88°04'10", in NW¼NE¼ sec.22, T.15 N., R.10 E., Douglas County, at bridge in Brushy Fork, 2.1 miles upstream from mouth.	125	1972-76	10-19-76	.00
					12-06-76	.04
					01-12-77	.00
					02-24-77	26
					03-25-77	99
					05-12-77	250
					06-22-77	8.1
					07-29-77	.00
					09-01-77	.89
03343700	Embarras River near Ashmore, IL	Lat 39°33'17", long 88°05'22", in NW¼SE¼ sec.24, T.13 N., R.10 E., Coles County, at Airtight bridge, 3.8 miles northwest of Ashmore and at mile 129.9.	720	1972-76	10-19-76	3.2
					12-06-76	6.8
					01-12-77	2.0
					02-24-77	154
					03-25-77	847
					05-12-77	1,880
					06-23-77	50
					07-29-77	10
					08-26-77	26
03379600	Little Wabash River at Blood, IL	Lat 38°31'08", long 88°07'55", in NE¼SE¼ sec.18, T.1 N., R.10 E., Edwards County, 0.5 mile south of Blood, 1 mile upstream from Sugar Creek, and 1.5 miles downstream from Fox River.	1,387	1972-76	10-01-76	19
					11-15-76	15
					12-27-76	12
					04-27-77	771
					05-19-77	72
					06-21-77	26
					08-03-77	31
					09-08-77	55
03380000	Little Wabash River near Golden Gate, IL	Lat 38°22'19", long 88°13'59", at north boundary sec.8, T.2 S., R.9 E., Wayne County, at State Highway 15, 1.5 miles below Elm River, 2 miles northwest of Golden Gate, and 6.5 miles east of Fairfield.	1,792	1908-12, 1972-76	10-01-76	43
					11-16-76	18
					02-09-77	12
					03-24-77	400
					05-11-77	834
					06-21-77	29
					08-19-77	241
					09-07-77	190
03381000	Skillet Fork near Mill Shoals, IL	Lat 38°13'47", long 88°20'51", in SE¼SW¼ sec.29, T.3 S., R.8 E., White County, at U.S. Highway 45, 0.8 mile south of Mill Shoals.	874	1909-12, 1972-73, 1975-76	10-05-76	11
					11-17-76	5.3
					04-21-77	56
					05-17-77	29
					06-22-77	9.6
					08-11-77	112
					09-07-77	23
		Saline River basin				
03382090	Sugar Creek near Stonefort, IL	Lat 37°39'19", long 88°45'48", in NE¼ sec.16, T.10 S., R.4 E., Williamson County, 4 miles northwest of Stonefort.	35.4	1975-76	03-30-77	56
					06-30-77	4.2
					08-25-77	.32
03382130	South Fork Saline River at Mitchellsville, IL	Lat 37°39'30", long 88°32'14", in NW¼ sec.15, T.10 S., R.6 E., Saline County, on State Highway 145, 1 mile north of Mitchellsville.	248	1976	03-31-77	4,160
					06-30-77	43
					08-24-77	10

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements: Date	Measurements: Discharge (ft^3/s)
		Saline River basin--Continued				
03382185	Bankston Fork near Dorris Heights, IL	Lat 37°46'05", long 88°32'25", in W½ sec.3, T.9 S., R.6 E., Saline County, on State Highway 34, 1.5 miles northeast of Dorris Heights and about 2 miles north of Harrisburg.	77.9	1976	03-30-77	658
					06-29-77	23
					08-25-77	4.6
03382320	Rector Creek near Texas City, IL	Lat 37°53'01", long 88°26'05", in SE¼ sec.28, T.7 S., R.7 E., Saline County, on county highway, about 2.5 miles west of Texas City.	76.4	1976	03-31-77	53
					06-29-77	2.3
					08-26-77	2.9
		Streams tributary to Lake Michigan				
04092495	Calumet River at Ewing Street at Chicago, IL	Lat 41°43'39", long 87°32'29", Cook County, at Ewing Street (92nd Street) Bridge, in Chicago and at mile 0.8.	-	1976	12-06-76	385
					12-07-76	[a]1,650
					12-08-76	1,750
					12-09-76	[a]1,810
					12-10-76	876
					12-11-76	2,060
					12-12-76	883
					12-13-76	[a]249
					12-14-76	79
					12-15-76	[a]2,710
					02-22-77	[a]1,890
					02-23-77	[a]2,080
					02-24-77	[a]1,220
					02-25-77	[a]3,480
					02-26-77	[a]1,650
					02-27-77	[a]2,190
					02-28-77	[a]1,470
					03-01-77	[a]602
					03-14-77	[a]923
					03-15-77	[a]566
					03-16-77	[a]251
					03-17-77	[a]1,550
					03-18-77	[a]367
					03-19-77	[a]1,430
		Rock River basin				
05437720	Rockford Drainage Ditch at 26th Street at Rockford, IL	Lat 42°14'43", long 89°02'55", in SE¼NW¼ sec.31, T.44 N., R.2 E., Winnebago County, on Wesleyan Avenue in Rockford.	1.14	-	06-30-77	4.3
					06-30-77	1.6
					07-18-77	1.2
					08-02-77	78
05437725	Rock River tributary on Taft Road at Rockford, IL	Lat 42°13'28", long 89°05'12", in SW¼SE¼ sec.2, T.43 N., R.1 E., Winnebago County, at bridge on Taft Road in Rockford.	8.25	-	07-14-77	2.2
					07-18-77	168
					08-02-77	48
					08-08-77	12
05438034	North Branch Kishwaukee River tributary near Alden, IL	Lat 42°25'16", long 88°30'45", in NE¼SE¼ sec.34, T.46 N., R.6 E., McHenry County, at culvert on Alden Road, 2.6 miles south of Alden.	6.25	-	06-07-77	.22
					06-30-77	.27
					07-28-77	.01
05438207	Mud Creek near Marengo, IL	Lat 42°17'57", long 88°41'27", in SW¼SE¼ sec.7, T.44 N., R.5 E., McHenry County, at culvert on Olcott Road, 3.6 miles northeast of Garden Prairie, and 5.2 miles northwest of Marengo.	5.40	-	06-21-77	.38
					06-30-77	.90
					07-14-77	.14
					07-18-77	.93
					07-28-77	.13
		Illinois River basin				
05526095	Gar Creek ditch at Kankakee, IL	Lat 41°05'37", long 87°52'28", in SW¼SE¼ sec.7, T.30 N., R.12 W., Kankakee County, on Kensington Avenue Bridge at Kankakee.	19.4	-	05-31-77	2.6
					06-23-77	.54
					09-01-77	103
05526105	Soldier Creek at Bradley, IL	Lat 41°08'53", long 87°05'02", in NW¼NW¼ sec.27, T.31 N., R.12 E., Kankakee County, on North Street Bridge at Bradley.	18.8	-	05-31-77	3.5
					06-22-77	3.0
					09-01-77	74
					09-13-77	14
					09-13-77	14

[a] Reverse flow.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Station No.	Station name	Location	Drainage area (mi²)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft³/s)
		Illinois River basin--Continued				
05528190	Hawthorn Drainage ditch at Mundelein, IL	Lat 42°15'52", long 88°00'09", in SW¼NW¼ sec.30, T.44 N., R.11 E., Lake County, in Mundelein.	1.78	-	05-05-77	1.3
					06-30-77	11
					06-30-77	9.0
					06-30-77	21
05530290	Centex Drainage ditch at Elk Grove Village, IL	Lat 41°59'40", long 87°57'19", in SW¼SW¼ sec.25, T.41 N., R.11 E., Cook County, in Elk Grove Village.	.37	-	10-05-76	8.6
					08-04-77	2.2
05531010	Salt Creek tributary No. 2 near Rolling Meadows, IL	Lat 42°02'28", long 88°01'47", in NW¼SW¼ sec.18, T.4 N., R.11 E., Cook County, 1 mile southwest of Rolling Meadows.	.54	-	05-04-77	.71
05531750	Addison Creek tributary at Elmhurst, IL	Lat 41°55'38", long 87°56'29", in NE¼SE¼ sec.26, T.40 N., R.11 E., Du Page County, in Elmhurst.	.94	-	06-28-77	24
					06-28-77	16
					06-28-77	9.6
					06-28-77	3.5
					06-30-77	16
05532960	Flag Creek at Clarendon Hills, IL	Lat 41°47'43", long 87°56'48", in NE¼SW¼ sec.11, T.38 N., R.11 E., Du Page County, in Clarendon Hills.	1.52	-	06-16-77	4.3
					06-30-77	20
05536115	North Branch Chicago River at Chicago Avenue at Chicago, IL	Lat 41°53'47", long 87°38'39", Cook County, at Chicago Avenue Bridge, in Chicago.	179	1976	12-06-76	328
					12-07-76	462
					12-08-76	251
					12-09-76	233
					12-10-76	636
					12-11-76	219
					12-12-76	238
					12-13-76	212
					12-14-76	230
					12-15-76	415
					02-22-77	459
					02-23-77	428
					02-24-77	457
					02-25-77	450
					02-26-77	148
					02-27-77	440
					02-28-77	469
					03-01-77	676
					03-14-77	443
					03-15-77	428
					03-16-77	717
					03-17-77	636
					03-18-77	1,050
					03-19-77	557
05536140	Chicago Sanitary and Ship Canal at Cicero Avenue at Chicago, IL	Lat 41°49'11", long 87°44'36", Cook County, in Chicago and at mile 317.2.	-	1976	12-06-76	1,120
					12-07-76	838
					12-08-76	860
					12-09-76	755
					12-10-76	634
					12-11-76	1,540
					12-12-76	1,480
					12-13-76	1,620
					12-14-76	1,600
					12-15-76	1,440
					02-22-77	2,460
					02-23-77	1,710
					02-24-77	3,290
					02-25-77	3,880
					02-26-77	3,860
					02-27-77	4,670
					02-28-77	4,030
					03-01-77	1,620
					03-14-77	519
					03-15-77	514
					03-16-77	877
					03-17-77	497
					03-18-77	1,200
					03-19-77	448

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Illinois River basin--Continued				
05536162	Chicago Sanitary and Ship Canal near Sag Bridge, IL	Lat 41°42'07", long 87°56'23", in SW¼SE¼ sec.11, T.37 N., R.11 E., Du Page County, 1 mile north of Sag Bridge and at mile 304.2.	-	1976	12-06-76	1,760
					12-07-76	1,690
					12-08-76	1,270
					12-09-76	1,570
					12-10-76	2,180
					12-11-76	1,880
					12-12-76	2,730
					12-13-76	2,490
					12-14-76	2,440
					12-15-76	2,730
					02-22-77	3,730
					02-23-77	3,520
					02-24-77	4,540
					02-25-77	4,960
					02-26-77	4,440
					02-27-77	5,280
					02-28-77	6,180
					03-01-77	3,950
					03-14-77	1,540
					03-15-77	1,850
					03-16-77	1,970
					03-17-77	1,810
					03-18-77	3,470
					03-19-77	1,610
05536359	Grand Calumet River at Calumet City, IL	Lat 41°37'34", long 87°31'33", in SE¼NE¼ sec.8, T.36 N., R.15 E., Cook County, 0.1 mile downstream from Indiana-Illinois State line, in Calumet City.	6.22	1976	12-07-76	37
					12-09-76	38
					12-11-76	38
					12-13-76	28
					12-15-76	30
					02-23-77	21
					02-24-77	25
					02-25-77	17
					02-26-77	24
					02-27-77	24
					02-28-77	21
					03-01-77	22
					03-14-77	15
					03-15-77	20
					03-16-77	15
					03-17-77	18
					03-18-77	33
					03-19-77	15
05536366	Little Calumet River at Calumet Park, IL	Lat 41°39'26", long 87°38'29", Cook County, on downstream side of Halstead Avenue bridge in Calumet Park and at mile 320.2.	24.3	1976	12-06-76	904
					12-07-76	302
					12-08-76	835
					12-09-76	571
					12-10-76	1,190
					12-11-76	343
					12-12-76	1,540
					12-13-76	1,580
					12-14-76	996
					12-15-76	1,180
					02-22-77	1,430
					02-23-77	1,580
					02-24-77	2,460
					02-25-77	2,550
					02-26-77	3,360
					02-27-77	2,780
					02-28-77	2,620
					03-01-77	173
					03-14-77	684
					03-15-77	474
					03-16-77	873
					03-17-77	202
					03-18-77	1,330
					03-19-77	968

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Illinois River basin--Continued				
05536426	Calumet Sag Channel at Alsip, IL	Lat 41°39'20", long 87°44'18", in SE¼NE¼ sec.33, T.37 N., R.13 E., Cook County, at Cicero Avenue bridge in Alsip and at mile 314.9.	310	1976	12-06-76	1,020
					12-07-76	582
					12-08-76	953
					12-09-76	799
					12-10-76	1,220
					12-11-76	1,080
					12-12-76	1,200
					12-13-76	1,410
					12-14-76	1,390
					12-15-76	1,260
					02-22-77	1,750
					02-23-77	1,530
					02-24-77	2,800
					02-25-77	2,710
					02-26-77	3,390
					02-27-77	2,700
					02-28-77	3,060
					03-01-77	811
					03-14-77	832
					03-15-77	334
					03-16-77	450
					03-17-77	685
					03-18-77	1,060
					03-19-77	655
05536660	Crooked Creek near Palos Park, IL	Lat 41°41'45", long 87°52'30", in SE¼NE¼ sec.17, T.37 N., R.12 E., Cook County, 3 miles west of Palos Park.	3.60	-	05-05-77	27
05536700	Calumet Sag Channel at Sag Bridge, IL	Lat 41°41'45", long 87°56'11", in SE¼NE¼ sec.14, T.37 N., R.11 E., Cook County, 0.5 mile northeast of Sag Bridge and at mile 304.2.	389	1976	12-06-76	611
					12-07-76	409
					12-08-76	716
					12-09-76	1,060
					12-10-76	1,040
					12-11-76	1,240
					12-12-76	1,110
					12-13-76	1,430
					12-14-76	1,130
					12-15-76	1,160
					02-22-77	1,900
					02-23-77	1,870
					02-24-77	3,200
					02-25-77	2,780
					02-26-77	3,400
					02-27-77	2,780
					02-28-77	3,160
					03-01-77	1,430
					03-14-77	415
					03-15-77	366
					03-16-77	406
					03-17-77	1,600
					03-18-77	1,650
					03-19-77	799
05539850	West Branch Du Page River at Schaumburg, IL	Lat 42°00'30", long 88°07'09", in SE¼NE¼ sec.29, T.41 N., R.10 E., Cook County, in Schaumburg.	2.33	-	10-05-76	6.9
05551865	East Branch Big Rock Creek near Troxel, IL	Lat 41°51'05", long 88°34'07", in SE¼SE¼ sec.17, T.39 N., R.6 E., Kane County, at bridge on Perry Road, 1.8 miles northeast of Troxel and 2.5 miles northwest of Kaneville.	6.93	-	05-05-77	13
					06-03-77	.28
					06-30-77	2.2
					07-18-77	9.1
05555000	Vermilion River at Streator, IL	Lat 41°05'35", long 88°50'05", in SE¼ sec.2, T.30 N., R.3 E., Livingston County, at South Bloomington Street Bridge on State Highway 23, at Streator.	1,084	1914-30‡, 1960-62, 1965, 1968, 1970, 1972-74, 1976	05-09-77	1,730

‡ Operated as a continuous-record gaging station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Station No.	Station name	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Illinois River basin--Continued				
05561600	Arnold Creek tributary at East Peoria, IL	Lat 40°40'25", long 89°32'36", in NE¼NE¼ sec.34, T.26 N., R.4 W., Tazewell County, on Washington Street bridge in East Peoria.	0.64	-	09-13-77	0.51
05563300	Kickapoo Creek near Edwards, IL	Lat 40°44'39", long 89°44'32", in NW¼SE¼ sec.19, T.9 N., R.7 E., Peoria County, on bridge 2.3 miles south of I-74, near Edwards.	246	-	06-10-77	32
					08-15-77	53
					09-16-77	388
05563440	East Fork Dry Run at Peoria, IL	Lat 40°42'19", long 89°37'13", in SW¼NW¼ sec.5, T.8 N., R.8 E., Peoria County, on bridge in Laura Bradley Park in Peoria.	5.94	-	06-10-77	6.4
					06-30-77	7.2
					08-10-77	.96
					09-16-77	.18
05563525	Kickapoo Creek at Bartonville, IL	Lat 40°39'18", long 89°38'52", in SW¼SE¼ sec.24, T.8 N., R.7 E., Peoria County, on U.S. Highway 24 bridge at Bartonville.	304	-	06-01-77	35
					09-15-77	864
					09-16-77	418
05563700	Lick Creek at North Pekin, IL	Lat 40°36'46", long 89°37'54", in SW¼SE¼ sec.14, T.25 N., R.5 W., Tazewell County, on State Highway 29 bridge in North Pekin.	19.2	-	06-10-77	.08
					08-10-77	10
					09-13-77	27
					09-15-77	54
05573595	Stevens Creek near Decatur, IL	Lat 39°54'45", long 88°58'12", in NW¼SW¼ sec.22, T.17 N., R.2 E., Macon County, on State Highway 51 bridge near Decatur.	41.9	-	05-25-77	17
					06-27-77	24
					07-18-77	84
					08-10-77	198
05573610	Spring Creek at Decatur, IL	Lat 39°52'13", long 88°58'22", in SW¼NW¼ sec.3, T.16 N., R.2 E., Macon County, on State Highway 48 bridge in Decatur.	26.9	-	05-25-77	7.0
					06-27-77	44
					08-10-77	136
05573620	Stevens Creek at Decatur, IL	Lat 39°50'34", long 89°00'08", in NW¼ sec.17, T.16 N., R.2 E., Macon County, on West Main Street bridge in Decatur.	86.7	-	05-25-77	28
					06-27-77	106
					07-18-77	160
					08-10-77	376
05577495	Jacksonville Branch at Churchill Road at Springfield, IL	Lat 39°48'33", long 89°41'44", in SE¼NE¼ sec.30, T.16 N., R.5 W., Sangamon County, on Churchill Road bridge in Springfield.	11.3	-	05-28-77	1.3
					09-13-77	52
05577515	Spring Creek at Sanitary Plant at Springfield, IL	Lat 39°50'51", long 89°38'42", in SE¼SW¼ sec.10, T.16 N., R.5 W., Sangamon County, on Eighth Street Extension bridge in Springfield.	120	-	06-02-77	27
					08-10-77	76
05578000	Sangamon River at Petersburg, IL	Lat 40°00'37", long 89°50'42", in SW¼NW¼ sec.13, T.18 N., R.7 W., Menard County, at Petersburg.	3,063	1948-51‡, 1958-66, 1968-70, 1972-74, 1976	05-11-77	17,700
05580730	Sugar Creek at Towanda Avenue at Normal, IL	Lat 40°30'12", long 88°57'26", in SW¼SE¼ sec.26, T.24 N., R.2 E., McLean County, at bridge on Towanda Avenue, in Normal.	6.20	1976	03-24-77	4.0
05580740	Country Club Branch Sugar Creek at Bloomington, IL	Lat 40°29'35", long 88°58'52", in NW¼SW¼ sec.34, T.24 N., R.2 E., McLean County, at bridge on Emerson Street, in Bloomington, 0.05 mile upstream from mouth.	1.45	1976	03-24-77	.45
05580760	Sugar Creek below Franklin Avenue at Normal, IL	Lat 40°29'46", long 88°59'29", in SW¼NE¼ sec.33, T.24 N., R.2 E., McLean County, at center of downstream side of footbridge below Franklin Avenue, in Normal, 0.2 mile above junction with North Branch Sugar Creek.	[b]9.58	1975-76	10-29-76	.06
					11-23-76	.03
					12-14-76	.04
					01-26-77	.00
					02-10-77	11
					02-28-77	.36
					03-24-77	3.2
					04-22-77	.70
					05-24-77	2.0

‡ Operated as a continuous-record gaging station.
b Revised.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Illinois River basin--Continued				
05580765	North Branch Sugar Creek at Fort Jesse Road at Normal, IL	Lat 40°31'04", long 88°57'18", in SE¼SW¼ sec.23, T.24 N., R.2 E., McLean County, on box culverts near Firestone Plant in Normal.	1.20	-	06-01-77	0.45
					06-21-77	.27
					08-06-77	15
					08-06-77	13
					08-06-77	10
					08-06-77	8.7
05580770	North Branch Sugar Creek at Towanda Avenue at Normal, IL	Lat 40°31'00", long 88°57'38", in NW¼NW¼ sec.26, T.24 N., R.2 E., McLean County, at bridge on Towanda Avenue in Normal.	2.68	1976	03-24-77	1.1
05580805	North Branch Sugar Creek tributary at Normal, IL	Lat 40°30'06", long 88°59'25", in NW¼NE¼ sec.33, T.24 N., R.2 E., McLean County, at downstream end of culvert under Franklin Avenue Medical Center, in Normal, 0.1 mile upstream from mouth.	.52	1976	03-24-77	.14
05580810	North Branch Sugar Creek at Normal, IL	Lat 40°29'55", long 88°59'29", in SW¼NE¼ sec.33, T.24 N., R.2 E., McLean County, on right bank at downstream side of footbridge at Franklin Avenue, in Normal, 0.2 mile upstream from mouth.	[b]5.70	1975-76	10-29-76	.02
					11-23-76	.01
					12-14-76	.01
					01-26-77	0
					02-10-77	14
					02-28-77	.08
					03-24-77	3.2
					04-22-77	.30
					05-24-77	1.3
05580880	West Branch Sugar Creek at Normal, IL	Lat 40°30'09", long 89°00'16", in NW¼NE¼ sec.32, T.24 N., R.2 E., McLean County, at Hovey Avenue bridge, in Normal, 0.6 mile upstream from mouth.	4.10	1976	03-24-77	1.9
05580910	Sugar Creek at Market Street at Bloomington, IL	Lat 40°29'02", long 89°01'10", in NW¼NW¼ sec.5, T.23 N., R.2 E., McLean County, at Market Street, in Bloomington.	21.5	1976	03-24-77	6.0
05580920	Skunk Creek at Bloomington, IL	Lat 40°29'02", long 89°01'18", in NW¼NW¼ sec.5, T.23 N., R.2 E., McLean County, at Market Street in Bloomington, 0.2 mile upstream from mouth.	6.42	-	03-24-77	3.6
05580930	West Slough at Bloomington, IL	Lat 40°28'50", long 89°01'09", in SW¼NW¼ sec.5, T.23 N., R.2 E., McLean County, at downstream end of outfall under Caroline Street, 0.1 mile west of Bloomington and 0.2 mile upstream from mouth.	[b]3.26	1975-76	11-23-76	.06
					02-10-77	10
					02-10-77	14
					02-10-77	30
					03-24-77	.31
05580945	Sugar Creek above Sewage Plant at Bloomington, IL	Lat 40°28'21", long 89°01'36", in NW¼NE¼ sec.7, T.23 N., R.2 E., McLean County, 100 feet above Sewage Plant outfall and 0.4 mile west of Bloomington.	32.4	-	10-29-76	.55
					12-14-76	1.0
					01-26-77	.32
					02-28-77	1.2
					03-24-77	10
					04-22-77	2.3
					05-24-77	7.3
					06-16-77	2.5
					06-17-77	2.5
05580948	Goose Creek above Sewage Plant at Bloomington, IL	Lat 40°28'14", long 89°01'25", in SW¼NE¼ sec.7, T.23 N., R.2 E., McLean County, at Oakland County Road, 0.2 mile southwest of Bloomington and 0.2 mile upstream from mouth.	2.27	1976	03-24-77	1.6
		Kaskaskia River basin				
05590075	Copper Slough near Champaign, IL	Lat 40°05'03", long 88°19'59", in SE¼SE¼ sec.19, T.19 N., R.8 E., Champaign County, 2.6 miles southwest of Champaign.	15.4	-	06-17-77	7.7
					06-22-77	15
					07-12-77	4.1
					08-06-77	124

b Revised.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Big Muddy River basin				
05597040	Pond Creek at West Frankfort, IL	Lat 37°53'06", long 88°55'54", in NE¼ sec.25, T.7 S., R.2 E., Franklin County, at State Highway 37, in West Frankfort, about 0.9 mile south of State Highway 149.	33.1	1976	03-30-77 07-01-77 08-30-77	45 5.2 71
05597300	Little Muddy River near De Soto, IL	Lat 37°49'53", long 89°11'12", in NW¼ sec.14, T.8 S., R.1 W., Jackson County, on State Highway 149, 2 miles northwest of De Soto.	283	1967-70, 1976	04-06-77 07-05-77 08-26-77	962 24 14
05598210	Sycamore Creek near Carbondale, IL	Lat 37°42'30", long 89°10'20", in E½ sec.26, T.9 S., R.1 W., Jackson County, about 2 miles southeast of Carbondale.	5.56	1976	04-07-77 07-01-77 08-29-77	4.7 2.6 6.3
05598700	Panther Creek near Pyatts, IL	Lat 38°00'10", long 89°20'07", in E½ sec.17, T.6 S., R.2 W., Perry County, on State Highway 152, 1.5 miles east of junction with State Highways 13 and 127, and 2 miles east of Pyatts.	-	1976	04-07-77 07-07-77 08-26-77	10 4.6 4.0
05599055	Pipestone Creek near Denmark, IL	Lat 37°57'58", long 89°29'03", in NW¼ sec.31, T.6 S., R.3 W., Perry County, on county highway, about 2.5 miles east of Denmark.	18.7	1975-76	04-06-77 07-06-77 08-25-77	8.2 1.2 4.8
05599080	Pipestone Creek near Ava, IL	Lat 37°57'33", long 89°26'34", in SW¼ sec.33, T.6 S., R.3 W., Perry County, on county road, about 5.5 miles northeast of Ava.	46.1	1976	04-06-77 07-06-77 08-25-77	17 1.0 4.7
05599300	Beaucoup Creek near Oraville, IL	Lat 37°51'43", long 89°19'57", in N½ sec.4, T.8 S., R.2 W., Jackson County, on State Highway 4, about 0.6 mile west of intersection with State Highways 13 and 127, and 3 miles east of Oraville.	515	1976	04-07-77 07-05-77 08-25-77	403 24 41

The following table contains annual maximum gage heights for crest-stage gages on streams and lakes that are located in Cook and McHenry Counties in northeastern Illinois. A crest-stage station is equipped with a crest-stage gage which is a device that will register the peak stage occurring between inspections of the gage.

The date of the maximum flood at a crest-stage station is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Miles above mouth, as measured along low-water channel on topographic maps, is listed for each station where it has been determined. Elevation of the arbitrary datum (zero) of the gage referred to mean sea level, adjustment of 1929, is given for each station where it is available. The relative elevation of flood stages at various stations may be determined by adding the gage heights to the appropriate datum. Only the maximum flood for the water year is shown. Information on lower floods may have been determined but are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Station No.	Station name	Location	Drainage area (mi²)	Miles above mouth	Period of record	Annual maximum	
						Date	Gage height (feet)
		Rock River basin					
05437993	Kishwaukee River at Franklinville, IL	SE¼SE¼ sec.27, T.44 N., R.6 E., McHenry County, at bridge on Franklinville Road, 1.3 miles south of Franklinville. Datum of gage is 826.54 ft.	27.1	45.74	1970-77 (discontinued)	03-29-77	[a]-2.64
05438030	Franklinville Creek at Franklinville, IL	NW¼SW¼ sec.23, T.44 N., R.6 E., McHenry County, at bridge on Perkins Road in Franklinville. Datum of gage is 829.83 ft.	10.7	1.35	1970-77 (discontinued)	03-29-77	.88
05438060	North Branch Kishwaukee River near Franklinville, IL	SE¼SE¼ sec.5, T.44 N., R.6 E., McHenry County, at bridge on Kishwaukee Valley Road, 3.3 miles northwest of Franklinville. Datum of gage is 839.24 ft.	31.5	5.64	1970-77 (discontinued)	05-05-77	[a]-.35
05438100	Kishwaukee River near Marengo, IL	SE¼NW¼ sec.29, T.44 N., R.6 E., McHenry County, at bridge on Millstream Road, 2.7 miles northeast of Marengo. Datum of gage is 807.57 ft.	89.7	42.00	1970-77	07-16-77	.18
05438140	South Branch Kishwaukee River (East) near Union, IL	SE¼NE¼ sec.11, T.43 N., R.6 E., McHenry County, at bridge on Seeman Road, 2.8 miles southeast of Union. Datum of gage is 837.82 ft.	56.0	5.88	1966-77 (discontinued)	03-29-77	[a]-.40
05438200	Kishwaukee River near Garden Prairie, IL	SW¼NW¼ sec.28, T.44 N., R.5 E., McHenry County, at bridge on Thorn Road, 3.0 miles northwest of Marengo and 3.2 miles northeast of Garden Prairie. Datum of gage is 783.78 ft. Prior to May 2, 1973, at datum 1.00 ft lower.	186	33.82	1970-77 (discontinued)	03-05-76 07-16-77	[b]1.95 [a]-.65
05438203	Rush Creek near Capron, IL	NW¼NE¼ sec.27, T.45 N., R.5 E., McHenry County, at bridge on Bunker Hill Road, 4.6 miles southwest of Harvard and 6.1 miles southeast of Capron. Datum of gage is 849.21 ft.	13.2	8.48	1970-77 (discontinued)	-	(c)
05438247	Coon Creek near Riley, IL	NE¼NW¼ sec.35, T.43 N., R.5 E., McHenry County, at bridge on Coon Creek Road, 1.9 miles southeast of Riley. Datum of gage is 805.04 ft.	82.9	15.75	1970-77 (discontinued)	03-29-77	2.46
05438258	Riley Creek at Riley, IL	NW¼NE¼ sec.22, T.43 N., R.5 E., McHenry County, at culvert on Riley Road, 0.15 mile north of Riley. Datum of gage is 800.27 ft.	4.54	.29	1970-77 (discontinued)	03-29-77	.56
05438285	Piscasaw Creek near Lawrence, IL	NW¼SE¼ sec.16, T.46 N., R.5 E., McHenry County, at bridge on Lawrence Road, 1.9 miles northwest of Lawrence. Datum of gage is 898.04 ft.	28.6	24.35	1970-77	03-29-77	.37

a From floodmark.
b Corrected.
c Peak stage did not reach bottom of gage.

Station No.	Station name	Location	Drainage area (mi²)	Miles above mouth	Period of record	Annual maximum	
						Date	Gage height (feet)
		Rock River basin--Continued					
05438310	Lawrence Creek at Lawrence, IL	SE¼SW¼ sec.22, T.46 N., R.5 E., McHenry County, at bridge on Lawrence Road, 0.4 mile northeast of Lawrence. Datum of gage is 885.78 ft.	16.6	1.66	1970-77	03-29-77	[a]-.39
05438320	Piscasaw Creek at Chemung, IL	SE¼NE¼ sec.32, T.46 N., R.5 E., McHenry County, at Diggins Bridge on Maxon Road, 0.6 mile north of Chemung. Datum of gage is 869.47 ft.	52.9	21.02	1970-77 (discontinued)	03-29-77	1.00
05438340	Little Beaver Creek near Capron, IL	SE¼NW¼ sec.7, T.45 N., R.5 E., McHenry County, at Johnson Bridge on County Line Road, 1.7 miles east of Capron. Datum of gage is 849.23 ft. Prior to May 2, 1973, at datum 1.00 ft lower.	12.8	.44	1970-77 (discontinued)	03-29-77	[a]-.08
05438380	Mokeler Creek near Capron, IL	SW¼SE¼ sec.7, T.45 N., R.5 E., McHenry County, at bridge on Pales Road, 2.6 miles southeast of Capron. Datum of gage is 849.02 ft.	9.20	.40	1970-77 (discontinued)	03-29-77	.58
		Illinois River basin					
05528530	Wheeling Drainage ditch at Wheeling, IL	SE¼SW¼ sec.2, T.42 N., R.11 E., Cook County, at bridge on State Highway 68 at Wheeling. Datum of gage is 639.41 ft.	21.8	2.32	1961-77	-	(c)
05530200	Des Plaines River at Park Ridge, IL	NW¼NW¼ sec.34, T.41 N., R.12 E., Cook County, at bridge on Touhy Avenue, 0.5 mile west of Park Ridge. Datum of gage is 620.60 ft.	409	62.00	1962-77	-	(c)
05530550	Crystal Creek near Schiller Park, IL	SW¼NW¼ sec.16, T.40 N., R.12 E., Cook County, at culvert on U.S. Highway 12 and 45, 0.3 mile west of Schiller Park. Datum of gage is 634.21 ft. Prior to Feb. 2, 1968, at datum 0.30 ft lower.	3.26	2.21	1962-77	-	(c)
05530570	Crystal Creek at Schiller Park, IL	NW¼NW¼ sec.15, T.40 N., R.12 E., Cook County, at bridge on River Road at Schiller Park. Datum of gage is 618.84 ft. Prior to Apr. 18, 1973, at datum 3.00 ft higher.	5.16	.43	1961-77	06-30-77	.61
05530660	Silver Creek at Franklin Park, IL	SW¼NE¼ sec.29, T.40 N., R.12 E., Cook County, at bridge on Grand Avenue, 0.3 mile west of Franklin Park. Datum of gage is 638.03 ft.	6.91	4.65	1961-77	06-30-77	2.37
05530980	Arlington Heights Branch Salt Creek at Palatine, IL	Near center of SW¼ sec.24, T.42 N., R.10 E., Cook County, at culvert on U.S. Highway 14, 0.3 mile southeast of Palatine. Datum of gage is 709.80 ft.	9.76	2.84	1961-64, 1967-77	06-30-77	.36
05531020	West Branch Salt Creek at Schaumburg, IL	NE¼SE¼ sec.14, T.41 N., R.10 E., Cook County, at bridge on State Highway 72, 1.6 miles northeast of Schaumburg and about 4.0 miles northwest of Roselle. Datum of gage is 719.48 ft. Prior to Apr. 18, 1973, at datum 1.30 ft higher.	4.83	4.59	1961-77	06-30-77	1.56
05531040	West Branch Salt Creek near Roselle, IL	NW¼NW¼ sec.30, T.41 N., R.11 E., Cook County, at bridge on Interstate Highway 90, 4.0 miles northeast of Roselle. Datum of gage is 691.22 ft.	11.8	1.46	1961-77	06-30-77	.80

a From floodmark.
c Peak stage did not reach bottom of gage.

Station No.	Station name	Location	Drainage area (mi^2)	Miles above mouth	Period of record	Annual maximum	
						Date	Gage height (feet)
		Illinois River basin--Continued					
05535100	Skokie River at Glencoe, IL	NE¼NW¼ sec.12, T.42 N., R.12 E., Cook County, at bridge on State Highway 68, 0.5 mile west of Glencoe. Datum of gage is 624.39 ft.	23.8	5.55	1961-77	-	(c)
05536182	Plum Creek at Dyer, IN	NW¼ sec.13, T.35 N., R.10 E., Lake County, Ind., at bridge on Hart Street at Dyer. Datum of gage is 627.18 ft. Prior to Apr. 19, 1973, at datum 3.20 ft lower.	36.5	5.79	1966-77	-	(c)
05536204	Thorn Creek at Chicago Heights, IL	Near center of sec.20, T.35 N., R.14 E., Cook County, at bridge on U.S. Highway 30 at Chicago Heights. Datum of gage is 642.61 ft. Prior to Apr. 19, 1973, at datum 1.50 ft higher.	10.0	11.82	1962-77	09-18-77	.48
05536226	Deer Creek near Steger, IL	SE¼SW¼ sec.34, T.35 N., R.14 E., Cook County, at bridge on Steger Road, 1.6 miles east of Steger. Datum of gage is 664.63 ft.	16.0	7.86	1966-77	09-18-77	1.47
05536230	Deer Creek near Sauk Village, IL	NE¼SE¼ sec.27, T.35 N., R.14 E., Cook County, at bridge on Cottage Grove Avenue, 1.5 miles west of Sauk Village. Datum of gage is 645.26 ft.	17.5	5.85	1966-77	09-18-77	1.79
05536242	Butterfield Creek at Olympia Fields, IL	SW¼NW¼ sec.23, T.35 N., R.13 E., Cook County, at culvert on U.S. Highway 54 at southwest edge of Olympia Fields. Datum of gage is 680.68 ft.	9.44	8.12	1961-77	09-25-77	.88
05536250	Butterfield Creek near Flossmoor, IL	SE¼SE¼ sec.12, T.35 N., R.13 E., Cook County, at culvert on Vollmer Road, 0.5 mile south of Flossmoor. Datum of gage is 649.14 ft.	19.2	4.62	1961-77	09-25-77	2.14
05536260	Lansing ditch at Sauk Village, IL	SW¼NW¼ sec.30, T.35 N., R.15 E., Cook County, at bridge on Sauk Trail, at Sauk Village. Datum of gage is 627.02 ft.	3.90	6.08	1966-77	03-29-77	3.2[illegible]
05536295	Calumet Union Drainage Canal at Markham, IL	NE¼NW¼ sec.24, T.36 N., R.13 E., Cook County, at downstream end of underground conduit along south side of U.S. Highway 6, about 2,400 ft downstream (east) from Kedzie Avenue. Datum of gage is 605.77 ft. Prior to March 1964, 2,200 ft upstream at datum 5.02 ft higher, and at datum 0.45 ft lower March 1964 to November 1971.	2.15	4.17	1962-77	09-01-77	3.78
05536300	Calumet Union Drainage Canal tributary near Hazel Crest, IL	NW¼SW¼ sec.25, T.36 N., R.13 E., Cook County, at culvert on Kedzie Avenue at west edge of Hazel Crest. Datum of gage is 632.05 ft.	3.21	2.28	1961-77	09-01-77	1.03
05536305	Cherry Creek at Hazel Crest, IL	SW¼NW¼ sec.30, T.36 N., R.14 E., Cook County, at culvert on 170th Street in Hazel Crest. Datum of gage is 614.21 ft.	5.09	1.31	1962-77	09-01-77	2.65
05536315	Calumet Union Drainage Canal at South Holland, IL	NE¼NW¼ sec.21, T.36 N., R.14 E., Cook County, at bridge on Vincennes Avenue at South Holland, 0.6 mile southeast of Harvey. Datum of gage is 593.38 ft.	17.1	1.03	1961-77	09-01-77	3.44
05536330	Midlothian Creek at Tinley Park, IL	NE¼SW¼ sec.30, T.36 N., R.13 E., Cook County, at culvert on 171st Street at Tinley Park. Datum of gage is 687.32 ft.	7.37	9.53	1961-77	09-01-77	.95

c Peak stage did not reach bottom of gage.

Station No.	Station name	Location	Drainage area (mi^2)	Miles above mouth	Period of record	Annual maximum	
						Date	Gage height (feet)
		Illinois River basin--Continued					
05536345	Midlothian Creek tributary at Midlothian, IL	SE¼NW¼ sec.10, T.36 N., R.13 E., Cook County, at bridge on 147th Street, 0.3 mile east of State Highway 50 at Midlothian. Datum of gage is 623.24 ft.	2.86	1.89	1962-77	09-01-77	1.97
05536350	Midlothian Creek at Robbins, IL	SE¼NE¼ sec.2, T.36 N., R.13 E., Cook County, at culvert on 139th Street in Robbins. Datum of gage is 595.99 ft.	18.3	1.83	1962-77	03-29-77	0.14
05536355	Midlothian Creek at Blue Island, IL	SE¼NE¼ sec.1, T.36 N., R.13 E., Cook County, at bridge on Western Avenue at south edge of Blue Island. Datum of gage is 589.21 ft.	19.8	.59	1962-77	09-01-77	a-.18
05536440	Tinley Creek near Orland Park, IL	SE¼SW¼ sec.11, T.36 N., R.12 E., Cook County, at culvert on 151st Street at south edge of Silver Lake Country Club, 2.0 miles southeast of Orland Park. Datum of gage is 668.86 ft. Prior to May 19, 1973, at datum 1.00 ft higher.	3.36	7.13	1962-77	03-29-77	.36
05536480	Tinley Creek tributary near Oak Forest, IL	SW¼NW¼ sec.8, T.36 N., R.13 E., Cook County, at bridge on 147th Street, 2.2 miles northwest of Oak Forest. Datum of gage is 655.09 ft.	1.70	1.05	1962-77	-	(d)
05536580	Stony Creek (West) near Worth, IL	NE¼NW¼ sec.23, T.37 N., R.12 E., Cook County, at bridge on 111th Street, 1.7 miles west of Worth. Datum of gage is 580.44 ft.	19.1	.62	1962-77	09-01-77	1.76
05536590	Lucas ditch at Palos Hills, IL	NW¼SW¼ sec.14, T.37 N., R.12 E., Cook County, at culvert on 107th Street, 0.6 mile west of Palos Hills and about 2 miles north of Palos Park. Datum of gage is 585.35 ft. Prior to May 15, 1973, at datum 1.50 ft higher.	5.31	.65	1961-77	09-01-77	2.94
05537300	Long Run near Orland Park, IL	NE¼SE¼ sec.1, T.37 N., R.11 E., Will County, at culvert on Will-Cook County Line Road near junction with 139th Street, 1.5 miles northwest of Orland Park. Datum of gage is 681.62 ft.	3.31	11.38	1962-77	09-01-77	2.72
05538160	Union Drainage ditch No. 1 near Tinley Park, IL	SE¼NW¼ sec.6, T.35 N., R.13 E., Cook County, at culvert on Oak Park Avenue at northeast corner of Prosperi Airport, 1.5 miles south of Tinley Park. Datum of gage is 687.98 ft.	5.15	.99	1962-77	09-01-77	4.73
05538180	Flossmoor Road Drainage ditch near Tinley Park, IL	NE¼NE¼ sec.7, T.35 N., R.13 E., Cook County, at culvert on Ridgeland Avenue, 2.5 miles south of Tinley Park. Datum of gage is 688.05 ft.	2.39	2.01	1962-77	09-01-77	4.90
05548005	Nippersink Creek tributary at Alden, IL	NW¼SE¼ sec.15, T.46 N., R.6 E., McHenry County, at bridge on Alden Road in Alden. Datum of gage is 950.16 ft.	3.98	2.68	1970-77	03-30-77	.05
05548010	Nippersink Creek near Alden, IL	NW¼SW¼ sec.18, T.46 N., R.7 E., McHenry County, at bridge on State Highway 173, 2.7 miles east of Alden. Datum of gage is 926.29 ft.	19.3	31.30	1965-77	-	(c)
05548030	Nippersink Creek near Greenwood, IL	SE¼NE¼ sec.5, T.45 N., R.7 E., McHenry County, at bridge on State Highway 47, 2.8 miles northwest of Greenwood. Datum of gage is 862.55 ft.	24.7	25.01	1965-77	-	(c)

a From floodmark.
c Peak stage did not reach bottom of gage.
d Peak stage not obtained.

Station No.	Station name	Location	Drainage area (mi^2)	Miles above mouth	Period of record	Annual maximum	
						Date	Gage height (feet)
		Illinois River basin--Continued					
05548095	Vander Karr Creek near Greenwood, IL	SE¼SW¼ sec.3, T.45 N., R.7 E., McHenry County, at bridge on Allendale Road, 1.2 miles northwest of Greenwood. Datum of gage is 837.33 ft.	16.4	0.14	1965-77	03-30-77	0.09
05548105	Nippersink Creek above Wonder Lake, IL	NE¼NW¼ sec.13, T.45 N., R.7 E., McHenry County, at bridge on Thompson Road, 1.2 miles west of Wonder Lake and 1.1 miles east of Greenwood. Datum of gage is 806.31 ft.	84.5	19.71	1965-77	03-29-77	[a]-1.57
05548110	Nippersink Creek below Wonder Lake, IL	NW¼NE¼ sec.6, T.45 N., R.8 E., McHenry County, at bridge on Barnard Mill Road, 2.0 miles north of Wonder Lake and 2.8 miles northwest of Ringwood. Datum of gage is 780.29 ft.	97.3	16.50	1965-77	03-29-77	[a]-.93
05548120	Nippersink Creek near Solon Mills, IL	SW¼SW¼ sec.27, T.46 N., R.8 E., McHenry County, at bridge on Pioneer Road, 1.1 miles southwest of Solon Mills. Datum of gage is 764.96 ft.	117	10.77	1965-77	03-29-77	[a]-.80
05548180	North Branch Nippersink Creek at Richmond, IL	NW¼SE¼ sec.9, T.46 N., R.8 E., McHenry County, at bridge on U.S. Highway 12 at Richmond. Datum of gage is 792.49 ft.	50.9	6.29	1965-77	03-29-77	[a]-.93
05548190	Elizabeth Lake drain at Richmond, IL	NE¼SW¼ sec.10, T.46 N., R.8 E., McHenry County, at culvert on State Highway 173, 0.9 mile east of Richmond. Datum of gage is 790.96 ft.	13.3	.92	1965-77	03-29-77	[a]-.80
05548530	Dutch Creek at Johnsburg, IL	SE¼SE¼ sec.14, T.45 N., R.8 E., McHenry County, at culvert on Riverside Drive, 0.8 mile southwest of Johnsburg. Datum of gage is 737.78 ft.	6.98	.86	1965-77	03-29-77	[a]-.06
05549870	Spring Creek near Carpentersville, IL	NE¼ sec.17, T.42 N., R.9 E., Cook County, at bridge on State Highway 62, 4 miles northeast of Carpentersville. Datum of gage is 773.37 ft. Prior to May 10, 1976, at datum 8.01 ft higher.	8.28	7.97	1961-77	03-29-77	.40
05550030	Crystal Creek at Lake in the Hills, IL	SE¼NW¼ sec.28, T.43 N., R.8 E., McHenry County, at bridge on Huntley-Algonquin Road at Lake in the Hills. Datum of gage is 764.65 ft.	11.4	1.43	1965-77	06-30-77	.73
05550350	Poplar Creek near Barrington, IL	NW¼ sec.25, T.42 N., R.9 E., Cook County, at culvert on State Highway 62, 0.2 mile east of Barrington Road and 4 miles south of Barrington. Datum of gage is 838.33 ft.	3.30	14.84	1961-77	-	(c)
05550400	Poplar Creek near Bartlett, IL	W½ sec.1, T.41 N., R.9 E., Cook County, at bridge on State Highway 72, 0.6 mile northwest of Barrington Road and 4.5 miles north of Bartlett. Datum of gage is 803.12 ft.	6.27	11.81	1954-59, 1962-77	03-29-77	.36
05550490	Poplar Creek near Elgin, IL	SE¼ sec.17, T.41 N., R.9 E., Cook County, at bridge on Rohrson Road, 0.2 mile north of State Highway 19 and about 3 miles east of Elgin. Datum of gage is 751.38 ft.	33.8	4.48	1961-77	-	(c)

a From floodmark.

c Peak stage did not reach bottom of gage.

Water-quality partial-record stations are particular sites where chemical-quality, biological and/or sediment data are collected systematically over a period of years for use in hydrologic analyses. The data are collected usually less than quarterly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

SALINE RIVER BASIN

03382090 - SUGAR CREEK NEAR STONEFORT, IL (LAT 37 39 19 LONG 088 45 48)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
MAR . 1977 30...	1345	56	375	4.5	28.0	16.0	7.9	--	--	0	0	0
JUN 30...	1330	4.2	1190	3.2	32.0	26.5	5.5	11	550	0	0	0
AUG 25...	1110	.32	2380	3.0	31.0	25.0	9.9	27	1340	0	0	0

03382130 - SOUTH FORK SALINE RIVER AT MITCHELLSVILLE, IL (LAT 37 39 30 LONG 088 32 14)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
MAR . 1977 31...	1645	4160	350	6.9	14.0	15.5	7.5	--	--	13	0	11
JUN 30...	1100	43	1430	3.2	32.0	26.5	8.9	4.0	200	0	0	0
AUG 24...	1400	10	1630	3.4	24.5	26.0	8.3	3.7	180	0	0	0

03382170 - BRUSHY CREEK NEAR HARCO, IL (LAT 37 46 30 LONG 088 39 08)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
MAR . 1977 29...	1130	38	330	6.9	27.0	14.5	8.9	--	--	35	0	29
JUN 29...	1130	.20	450	7.3	27.0	23.0	4.3	--	--	60	0	49

03382185 - BANKSTON FORK NEAR DORRIS HEIGHTS, IL (LAT 37 46 05 LONG 088 32 25)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
MAR . 1977 30...	1600	658	920	6.8	28.0	19.0	7.2	--	--	44	0	36
JUN 29...	1330	23	2200	6.7	27.5	25.5	8.3	--	--	14	0	11
AUG 25...	1440	4.6	3450	7.6	31.5	25.0	10.3	--	--	150	0	120

03382320 - RECTOR CREEK NEAR TEXAS CITY, IL (LAT 37 53 01 LONG 088 26 05)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
MAR . 1977 31...	1230	53	460	7.5	14.0	12.5	8.2	--	--	110	0	90
JUN 29...	1500	2.3	930	8.5	27.5	35.0	13.4	--	--	130	0	110
AUG 26...	1520	2.9	490	8.0	34.5	30.0	8.7	--	--	96	0	79

BIG MUDDY RIVER BASIN

05597040 - POND CREEK AT WEST FRANKFORT, IL (LAT 37 53 06 LONG 088 55 54)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
MAR . 1977 30...	1100	45	295	8.1	28.0	16.0	6.5	--	--	16	0	13
JUL 01...	1000	5.2	520	7.2	24.5	22.5	5.6	--	--	97	0	80
AUG 30...	1115	71	180	6.4	31.0	23.0	7.6	--	--	37	0	30

05597300 - LITTLE MUDDY RIVER NEAR DE SOTO, IL (LAT 37 49 53 LONG 089 11 12)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
APR . 1977 06...	1445	962	260	6.6	12.0	14.0	5.0	--	--	44	0	36
JUL 05...	1430	24	565	7.3	--	29.5	5.9	--	--	85	0	70
AUG 26...	1415	14	750	8.4	33.0	26.0	11.4	--	--	94	0	77

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WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SALINE RIVER BASIN												
03382090 - SUGAR CREEK NEAR STONEFORT, IL (LAT 37 39 19 LONG 088 45 48)												
MAR . 1977 30...	.0	160	4.7	5400	0	<10	10	9300	2200	<.5	150	5.8
JUN 30...	.0	700	6.5	3700	2	15	31	51000	11000	.1	1000	--
AUG 25...	.0	1700	4.4	140000	0	26	140	100000	26000	.0	2600	18
03382130 - SOUTH FORK SALINE RIVER AT MITCHELLSVILLE, IL (LAT 37 39 30 LONG 088 32 14)												
MAR . 1977 31...	2.6	140	5.9	110	0	<10	0	170	910	<.5	30	8.2
JUN 30...	.0	760	7.3	5400	2	6	23	7900	9400	.0	710	11
AUG 24...	.0	880	6.1	11000	0	2	10	18000	10000	.0	460	6.5
03382170 - BRUSHY CREEK NEAR HARCO, IL (LAT 37 46 30 LONG 088 39 08)												
MAR . 1977 29...	7.0	100	6.4	160	0	<10	10	230	200	<.5	50	5.1
JUN 29...	4.8	130	9.9	210	3	3	6	210	500	.3	20	5.0
03382185 - BANKSTON FORK NEAR DORRIS HEIGHTS, IL (LAT 37 46 05 LONG 088 32 25)												
MAR . 1977 30...	11	430	9.0	70	0	<10	0	210	920	<.5	40	8.9
JUN 29...	4.5	1300	14	60	2	2	0	5000	2200	.0	330	6.3
AUG 25...	6.0	2300	18	200	0	1	0	410	1400	.0	60	4.8
03382320 - RECTOR CREEK NEAR TEXAS CITY, IL (LAT 37 53 01 LONG 088 26 05)												
MAR . 1977 31...	5.6	99	32	100	1	<10	0	160	80	<.5	20	6.0
JUN 29...	.7	360	61	80	2	4	6	30	60	--	10	11
AUG 26...	1.5	66	27	210	0	1	7	190	100	.0	30	5.4
BIG MUDDY RIVER BASIN												
05597040 - POND CREEK AT WEST FRANKFORT, IL (LAT 37 53 06 LONG 088 55 54)												
MAR . 1977 30...	.2	83	17	270	0	<10	0	350	380	<.5	20	9.6
JUL 01...	9.8	160	32	180	0	1	4	50	390	.0	0	5.3
AUG 30...	24	38	9.5	230	0	7	8	300	310	.0	10	6.7
05597300 - LITTLE MUDDY RIVER NEAR DE SOTO, IL (LAT 37 49 53 LONG 089 11 12)												
APR . 1977 06...	18	80	8.3	110	1	<10	0	260	180	<.5	30	12
JUL 05...	6.8	170	19	220	2	1	0	100	820	.0	0	7.9
AUG 26...	.6	230	25	190	0	6	6	510	550	.0	0	7.1

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

BIG MUDDY RIVER BASIN--Continued

05597500 - CRAB ORCHARD CREEK NEAR MARION, IL (LAT 37 43 52 LONG 088 53 21)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
MAR , 1977												
29...	1650	307	342	6.1	--	18.3	6.4	--	--	28	0	23
JUN												
30...	1500	.63	1180	5.0	33.5	24.5	6.2	--	--	4	0	3
AUG												
24...	1145	.10	1140	7.3	24.0	23.5	9.3	--	--	31	0	25

05598210 - SYCAMORE CREEK NEAR CARBONDALE, IL (LAT 37 42 30 LONG 089 10 20)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
APR , 1977												
07...	1600	4.7	1480	3.8	28.5	17.0	8.2	4.9	240	0	0	0
JUL												
01...	1440	2.6	1160	3.5	32.0	26.0	8.4	3.0	150	0	0	0
AUG												
29...	1430	6.3	570	4.9	25.0	23.0	9.8	--	--	0	0	0

05598700 - PANTHER CREEK NEAR PYATTS, IL (LAT 38 00 10 LONG 089 20 07)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
APR , 1977												
07...	1000	10	2630	7.6	20.0	12.5	9.5	--	--	240	0	200
JUL												
07...	1110	4.6	2880	8.0	36.0	28.5	10.4	--	--	76	0	62
AUG												
26...	1045	4.0	3100	8.1	27.0	24.0	9.1	--	--	230	0	190

05599000 - BEAUCOUP CREEK NEAR MATTHEWS, IL (LAT 37 58 00 LONG 089 21 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
APR , 1977												
07...	1300	120	1020	7.6	27.0	13.0	8.4	--	--	110	0	90
JUL												
07...	1330	10	2400	7.8	38.5	29.0	5.7	--	--	8	0	7
AUG												
26...	1200	10	1550	7.8	27.5	23.5	7.1	--	--	140	0	110

05599055 - PIPESTONE CREEK NEAR DENMARK, IL (LAT 37 57 58 LONG 089 29 03)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
APR , 1977												
06...	1215	8.2	2370	8.2	8.5	11.0	11.8	--	--	230	0	190
JUL												
06...	1330	1.2	2880	8.6	38.5	35.0	12.8	--	--	230	7	200
AUG												
25...	1500	4.8	5600	8.7	27.0	27.0	13.6	--	--	370	0	300

055990[illegible] - PIPESTONE CREEK NEAR AVA, IL (LAT 37 57 33 LONG 089 26 34)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
APR , 1977												
06...	1120	17	1300	8.0	11.0	9.2	11.3	--	--	170	0	140
JUL												
06...	1500	1.0	4550	8.6	38.5	23.5	12.4	--	--	260	10	230
AUG												
25...	1315	4.7	5300	8.7	27.0	23.5	13.0	--	--	360	0	300

05599300 - BEAUCOUP CREEK NEAR ORAVILLE, IL (LAT 37 51 43 LONG 089 19 57)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
APR , 1977												
07...	1400	403	780	7.4	28.0	13.0	7.2	--	--	90	0	74
JUL												
05...	1300	24	1380	7.5	36.0	28.0	4.7	--	--	180	0	150
AUG												
25...	1045	41	2260	8.3	27.0	23.0	8.2	--	--	190	0	160

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
BIG MUDDY RIVER BASIN--Continued												
05597500 - CRAB ORCHARD CREEK NEAR MARION, IL (LAT 37 43 52 LONG 088 53 21)												
MAR , 1977												
29...	36	120	5.5	220	0	<10	10	540	400	<.5	40	8.6
JUN												
30...	64	630	13	820	2	3	7	340	2800	.2	230	6.1
AUG												
24...	2.5	580	8.4	20	1	1	4	30	1500	.0	10	6.9
05598210 - SYCAMORE CREEK NEAR CARBONDALE, IL (LAT 37 42 30 LONG 089 10 20)												
APR , 1977												
07...	.0	770	6.7	22000	0	<10	50	26000	16000	<.5	520	3.1
JUL												
01...	.0	660	5.2	2400	2	9	26	25000	15000	.2	400	6.5
AUG												
29...	.0	260	4.8	500	1	6	6	1200	6500	.0	110	7.2
05598700 - PANTHER CREEK NEAR PYATTS, IL (LAT 38 00 10 LONG 089 20 07)												
APR , 1977												
07...	9.6	1700	14	50	1	10	10	80	1100	<.5	20	3.5
JUL												
07...	1.2	1600	15	130	1	0	0	10	200	.0	0	4.9
AUG												
26...	2.9	1800	17	50	0	1	2	30	160	.0	10	7.4
05599000 - BEAUCOUP CREEK NEAR MATTHEWS, IL (LAT 37 58 00 LONG 089 21 00)												
APR , 1977												
07...	4.4	420	22	60	1	<10	10	150	490	<.5	10	8.7
JUL												
07...	.2	1300	16	130	2	0	0	10	910	.0	0	6.3
AUG												
26...	3.6	700	19	50	0	0	3	80	330	.0	0	7.2
05599055 - PIPESTONE CREEK NEAR DENMARK, IL (LAT 37 57 58 LONG 089 29 03)												
APR , 1977												
06...	2.3	920	31	80	1	<10	0	60	430	<.5	20	6.6
JUL												
06...	1.0	2200	70	200	0	0	2	10	110	.0	10	5.7
AUG												
25...	1.2	2700	54	60	0	0	3	40	1100	.0	0	7.5
05599080 - PIPESTONE CREEK NEAR AVA, IL (LAT 37 57 33 LONG 089 26 34)												
APR , 1977												
06...	2.7	580	18	50	0	<10	0	80	250	<.5	10	3.6
JUL												
06...	1.1	2200	66	130	0	0	0	20	190	.0	0	6.0
AUG												
25...	1.1	2500	51	40	0	0	2	50	150	.0	10	6.9
05599300 - BEAUCOUP CREEK NEAR ORAVILLE, IL (LAT 37 51 43 LONG 089 19 57)												
APR , 1977												
07...	5.7	310	19	60	1	<10	10	200	550	<.5	30	8.4
JUL												
05...	9.1	1300	16	130	2	0	0	10	910	.0	0	6.3
AUG												
25...	1.5	1200	29	50	1	2	5	40	660	.0	10	7.5

Samples are collected at sites other than gaging stations and partial-record stations to give better areal coverage in a river basin. Such sites are referred to as miscellaneous sites.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
ILLINOIS RIVER BASIN												
05580730 - SUGAR CREEK AT TOWANDA AVE AT NORMAL, IL (LAT 40 30 12 LONG 088 57 26)												
MAR , 1977												
24...	1045	4.0	520	7.9	5.5	9.0	12.2	2.0	B50	72	43	252
05580740 - COUNTRY CLUB BR SUGAR CREEK AT BLOOMINGTON, IL (LAT 40 29 35 LONG 088 58 52)												
MAR , 1977												
24...	1115	.45	820	8.0	6.5	11.5	13.0	2.0	70	180	130	548
05580770 - NORTH BR SUGAR CREEK AT TOWANDA AVE AT NORMAL IL (LAT 40 31 00 LONG 088 57 38)												
MAR , 1977												
24...	1015	1.1	980	7.7	5.5	6.0	11.8	3.0	B15	72	160	708
05580805 - NORTH BRANCH SUGAR CREEK TRIB AT NORMAL, IL (LAT 40 30 06 LONG 088 59 25)												
MAR , 1977												
24...	0945	.14	1060	8.3	5.0	5.5	12.6	3.0	1300	6800	110	744
05580880 - WEST BRANCH SUGAR CREEK AT NORMAL, IL (LAT 40 30 09 LONG 089 00 16)												
MAR , 1977												
24...	1255	1.9	780	7.9	10.5	13.0	12.4	7.0	348000	19000	95	596
05580910 - SUGAR CREEK AT MARKET STREET AT BLOOMINGTON, IL (LAT 40 29 02 LONG 089 01 10)												
MAR , 1977												
24...	1400	6.0	710	8.1	10.0	13.0	9.7	8.0	B25000	10000	79	--
05580920 - SKUNK CREEK AT BLOOMINGTON, IL (LAT 40 29 02 LONG 089 01 18)												
MAR , 1977												
24...	1335	3.6	690	7.8	10.5	9.0	11.4	2.0	B43	3650	66	452
05580948 - GOOSE CREEK ABOVE SEWAGE PLANT AT BLOOMINGTON,IL (LAT 40 28 14 LONG 089 01 25)												
MAR , 1977												
24...	1455	1.6	840	8.2	11.0	13.0	13.2	1.0	B16	856	88	616

B Results based on colony count outside the acceptable range (non-ideal colony count).

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SUS-PENDED SOLIDS (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
ILLINOIS RIVER BASIN											
05580730 - SUGAR CREEK AT TOWANDA AVE AT NORMAL, IL (LAT 40 30 12 LONG 088 57 26)											
MAR , 1977 24...	.36	2.72	65	4.2	.93	--	--	--	--	.09	2.9
05580760 - COUNTRY CLUB BR SUGAR CREEK AT BLOOMINGTON, IL (LAT 40 29 35 LONG 088 58 52)											
MAR , 1977 24...	.75	.67	9	2.5	.53	--	.50	3.0	13	.08	9.1
05580770 - NORTH BR SUGAR CREEK AT TOWANDA AVE AT NORMAL IL (LAT 40 31 00 LONG 088 57 38)											
MAR , 1977 24...	.96	2.16	4	3.6	.10	.50	.60	4.2	19	.07	1.9
05580805 - NORTH BRANCH SUGAR CREEK TRIB AT NORMAL, IL (LAT 40 30 06 LONG 088 59 25)											
MAR , 1977 24...	1.01	.28	3	4.8	.25	.15	.40	5.2	23	.12	3.4
05580880 - WEST BRANCH SUGAR CREEK AT NORMAL, IL (LAT 40 30 09 LONG 089 00 16)											
MAR , 1977 24...	.81	3.06	7	4.0	1.1	1.0	2.1	6.1	27	.29	4.1
05580910 - SUGAR CREEK AT MARKET STREET AT BLOOMINGTON, IL (LAT 40 29 02 LONG 089 01 10)											
MAR , 1977 24...	--	--	17	3.5	6.2	--	--	--	--	1.0	5.2
05580920 - SKUNK CREEK AT BLOOMINGTON, IL (LAT 40 29 02 LONG 089 01 18)											
MAR , 1977 24...	.61	4.39	6	5.7	.18	.02	.20	5.9	26	.09	5.9
05580948 - GOOSE CREEK ABOVE SEWAGE PLANT AT BLOOMINGTON,IL (LAT 40 28 14 LONG 089 01 25)											
MAR , 1977 24...	.84	2.66	7	3.1	.93	.17	1.1	4.2	19	1.8	4.7

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
WABASH RIVER BASIN									
03336900 SALT FORK NEAR ST. JOSEPH, IL (LAT 40 08 55 LONG 088 02 00)									
OCT. 18.....	1000	9.3	3.0	5.0	MAY 04.....	1520	46	24.0	22.0
DEC. 08.....	1020	9.7	-5.0	0.0	JUNE 21.....	1140	20	23.0	21.0
JAN. 11.....	1200	3.5	-10.0	0.0	JULY 25.....	1150	15	26.0	25.0
FEB. 25.....	1500	54	4.0	1.0	AUG. 30.....	1610	224	23.0	23.0
MAR. 22.....	1540	71	4.0	5.0					
03337000 BONEYARD CREEK AT URBANA, IL (LAT 40 06 40 LONG 088 13 35)									
OCT. 15.....	1410	1.3	21.0	21.0	APR. 01.....	1400	4.0	10.0	12.0
OCT. 15.....	1540	1.4	---	14.0	MAY 10.....	1530	3.0	14.0	16.0
NOV. 29.....	1665	1.6	0.0	4.0	JUNE 20.....	1310	1.8	22.0	22.0
JAN. 05.....	0945	1.3	0.0	3.0	JULY 29.....	1400	1.9	26.0	25.0
JAN. 13.....	1515	1.6	-5.0	2.0	AUG. 29.....	1600	3.5	25.0	22.0
FEB. 14.....	1035	3.3	4.0	5.0	SEPT.14.....	1010	6.8	17.0	19.0
MAR. 22.....	1220	78	4.5	4.5					
03339000 VERMILION RIVER NEAR DANVILLE, IL (LAT 40 05 53 LONG 087 35 37)									
NOV. 01.....	1105	58	13.5	10.5	MAR. 30.....	0825	3360	12.5	12.5
DEC. 22.....	1420	58	-2.0	4.5	MAY 17.....	0915	740	22.0	20.0
FEB. 03.....	1330	50	0.0	5.5	SEPT.10.....	1345	302	26.0	22.0
FEB. 28.....	1100	227	5.0	2.0					
03343400 EMBARRAS RIVER NEAR CAMARGO, IL (LAT 39 47 30 LONG 088 11 10)									
OCT. 13.....	1510	2.3	17.0	19.0	MAY 03.....	1250	62	20.0	19.0
NOV. 30.....	1250	3.4	-2.0	1.0	JUNE 23.....	1535	20	23.0	23.0
JAN. 04.....	1345	0.68	1.0	0.5	JULY 29.....	1010	1.9	24.0	24.0
FEB. 25.....	1030	107	6.0	3.0	AUG. 29.....	1350	26	24.0	25.0
MAR. 29.....	1510	851	15.0	15.0					
03343440 EMBARRAS RIVER AT HUGO, IL (LAT 39 45 09 LONG 088 08 49)									
OCT. 19.....	1250	2.4	10.0	9.0	MAY 13.....	1040	497	---	18.0
DEC. 06.....	1340	3.2	3.0	1.0	JUNE 23.....	1200	37	21.0	20.0
JAN. 12.....	1210	0.16	---	0.0	JULY 29.....	1115	4.5	24.0	23.0
FEB. 23.....	1410	64	8.0	3.0	SEPT.01.....	1510	39	29.0	28.0
MAR. 25.....	1125	625	---	8.0					
03343460 BRUSHY FORK AT BRUSHY FORK, IL (LAT 39 44 14 LONG 088 04 10)									
DEC. 06.....	1420	0.06	3.0	1.0	MAY 12.....	1050	250	14.0	15.0
FEB. 24.....	1100	26	1.0	2.0	JUNE 22.....	1420	8.1	18.0	20.0
MAR. 25.....	1520	99	9.0	10.0	SEPT.01.....	1550	0.89	22.0	26.0
03343700 EMBARRAS RIVER NEAR ASHMORE, IL (LAT 39 33 17 LONG 088 05 22)									
OCT. 19.....	1430	3.2	---	9.0	MAY 12.....	1430	1880	21.0	17.0
DEC. 06.....	1525	6.8	3.0	1.0	JUNE 23.....	1410	50	24.0	22.0
JAN. 12.....	1425	2.6	0.0	0.5	JULY 29.....	1340	10.0	30.0	25.0
FEB. 24.....	1240	154	5.0	3.0	AUG. 26.....	1245	26	24.0	26.0
MAR. 25.....	1330	867	10.0	10.0					
03344000 EMBARRAS RIVER NEAR DIONA, IL (LAT 39 20 40 LONG 088 10 15)									
OCT. 05.....	1400	9.0	26.5	19.4	MAY 05.....	1115	193	23.0	25.0
DEC. 08.....	1435	14	-5.0	1.0	MAY 18.....	1230	6360	13.0	16.0
JAN. 13.....	1140	7.2	-5.0	0.0	JUNE 22.....	1215	38	20.0	21.0
FEB. 24.....	1440	395	6.0	3.0	JULY 28.....	1040	20	25.0	23.0
MAR. 28.....	1530	3100	14.0	12.0	AUG. 25.....	1345	44	23.0	25.0
03344500 RANGE CREEK NEAR CASEY, IL (LAT 39 19 36 LONG 088 01 46)									
FEB. 16.....	1230	0.53	-2.0	0.0	APR. 12.....	1115	0.17	20.0	17.0
MAR. 28.....	1130	240	14.0	15.0	MAY 05.....	1340	0.16	23.0	25.0
03345500 EMBARRAS RIVER AT STE. MARIE, IL (LAT 38 56 10 LONG 088 01 10)									
OCT. 01.....	1240	32	20.0	19.0	MAY 23.....	1355	545	26.0	24.0
NOV. 16.....	1330	27	10.0	4.5	JUNE 22.....	1400	157	22.0	22.0
DEC. 09.....	1540	33	6.0	0.0	JULY 20.....	1545	101	34.0	33.0
JAN. 25.....	1400	8.9	0.0	0.0	AUG. 01.....	1550	57	29.0	30.0
FEB. 25.....	1720	762	9.5	5.0	AUG. 23.....	1310	397	21.0	19.0
MAR. 21.....	1325	571	18.0	10.5	SEPT.23.....	1415	193	24.0	21.0
MAY 04.....	1440	232	26.0	18.0					

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)	DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)
WABASH RIVER BASIN --CONTINUED									
03346000 NORTH FORK EMBARRAS RIVER NEAR OBLONG, IL (LAT 39 00 01 LONG 087 56 42)									
OCT. 01.....	1350	1.4	21.5	19.0	MAR. 21.....	1600	31	18.5	11.0
NOV. 10.....	1530	1.2	12.0	5.0	MAY 04.....	1600	18	27.5	18.5
DEC. 09.....	1345	1.6	4.0	1.5	JUNE 22.....	1525	6.2	22.0	22.5
JAN. 25.....	1540	1.2	0.0	0.0	AUG. 01.....	1350	2.1	29.0	25.5
03378000 BONPAS CREEK AT BROWNS, IL (LAT 38 23 11 LONG 087 58 32)									
OCT. 05.....	1125	2.1	21.5	18.0	MAY 12.....	1500	21	22.5	19.5
NOV. 16.....	1530	0.93	7.5	5.0	JUNE 24.....	1555	3.4	27.0	24.0
DEC. 28.....	1545	0.41	-1.5	2.5	AUG. 02.....	1360	2.3	26.5	25.0
MAR. 02.....	1330	98	6.5	4.5	SEPT.08.....	1200	12	29.0	24.5
MAR. 24.....	1630	38	13.5	12.5					
03378635 LITTLE WABASH RIVER NEAR EFFINGHAM, IL (LAT 39 06 13 LONG 088 35 33)									
OCT. 06.....	1030	28	8.5	16.0	JUNE 23.....	1600	1.2	26.0	23.0
OCT. 28.....	1615	3.1	14.0	7.0	JULY 13.....	1445	4.7	34.0	28.5
FEB. 14.....	1540	159	-1.0	1.5	AUG. 03.....	1500	0.08	32.0	30.0
MAR. 14.....	1445	100	21.0	10.0	AUG. 10.....	1200	2.0	22.5	21.0
MAR. 22.....	1720	56	11.5	11.0	AUG. 30.....	1300	14	23.0	21.5
MAY 20.....	1540	16	27.5	25.0					
03378900 LITTLE WABASH RIVER AT LOUISVILLE, IL (LAT 38 46 23 LONG 088 29 50)									
OCT. 07.....	1400	157	17.0	16.0	MAR. 28.....	1445	5310	14.5	16.5
NOV. 03.....	1545	44	13.0	8.0	APR. 14.....	1530	113	30.5	20.0
DEC. 08.....	1515	6.5	-6.0	1.5	MAY 09.....	1530	377	24.0	20.5
JAN. 05.....	1200	3.0	-1.0	0.5	JUNE 07.....	1130	12	23.0	23.5
JAN. 25.....	1500	4.8	0.0	0.0	JULY 13.....	1400	22	37.0	28.0
MAR. 09.....	1350	133	19.0	8.5	AUG. 15.....	1145	8.5	31.0	26.0
MAR. 14.....	1220	2720	20.0	7.5	SEPT.14.....	1140	168	19.5	26.0
03379500 LITTLE WABASH RIVER BELOW CLAY CITY, IL (LAT 38 38 05 LONG 088 17 50)									
OCT. 01.....	1640	16	20.0	18.5	MAR. 25.....	1215	219	17.0	11.0
NOV. 15.....	1100	10	7.0	2.0	APR. 01.....	1220	7050	20.0	14.0
DEC. 28.....	1200	7.8	-1.5	1.0	MAY 13.....	1445	142	27.0	19.5
JAN. 26.....	1050	4.5	1.0	0.5	JUNE 24.....	1130	18	25.0	24.0
FEB. 07.....	1520	6.2	-7.5	0.5	AUG. 03.....	1100	20	27.0	24.5
FEB. 15.....	1815	1730	4.5	0.5	SEPT.08.....	1900	26	22.0	25.5
03379600 LITTLE WABASH RIVER AT BLOOD, IL (LAT 38 31 08 LONG 088 07 55)									
OCT. 01.....	1410	19	24.0	18.0	MAY 19.....	1700	72	27.0	25.0
NOV. 15.....	1515	15	6.5	3.5	JUNE 21.....	1430	26	27.0	26.5
DEC. 27.....	1420	12	13.5	1.5	AUG. 03.....	1410	31	28.5	26.5
APR. 27.....	1115	771	21.5	16.0	SEPT.08.....	1650	55	26.0	26.0
03380000 LITTLE WABASH RIVER NEAR GOLDEN GATE, IL (LAT 38 22 19 LONG 088 13 59)									
OCT. 01.....	1130	43	23.5	17.5	MAY 11.....	1415	834	21.0	19.0
NOV. 16.....	1250	18	11.0	3.5	JUNE 21.....	1125	29	25.0	25.5
FEB. 09.....	1310	12	8.0	1.0	AUG. 19.....	1455	241	29.0	24.5
MAR. 24.....	1335	400	13.0	11.0	SEPT.07.....	1130	193	34.0	25.5
03380350 SKILLET FORK NEAR IUKA, IL (LAT 38 31 10 LONG 088 43 39)									
OCT. 06.....	1520	0.96	18.0	16.0	APR. 05.....	1615	73	8.5	11.5
OCT. 07.....	1040	2.9	---	13.5	MAY 09.....	1535	57	24.0	18.5
NOV. 03.....	1130	7.3	16.5	8.0	JUNE 10.....	1430	0.71	---	22.5
DEC. 06.....	1100	1.4	7.0	1.5	JULY 22.....	1050	2.2	24.0	26.0
FEB. 09.....	1520	4.7	8.0	0.0	AUG. 10.....	1330	47	25.0	22.0
MAR. 09.....	1640	60	20.0	9.5	SEPT.15.....	1430	2.6	29.0	21.5
03380475 HORSE CREEK NEAR KEENES, IL (LAT 38 22 34 LONG 088 39 44)									
DEC. 22.....	1420	0.59	1.0	2.0	MAY 10.....	1645	16	16.0	17.0
FEB. 24.....	1100	66	12.0	5.5	JUNE 30.....	1305	10	30.5	25.5
MAR. 16.....	1620	25	16.0	12.5	AUG. 10.....	1525	10.0	28.0	24.0
03380500 SKILLET FORK AT WAYNE CITY, IL (LAT 38 21 25 LONG 088 35 00)									
OCT. 04.....	1205	6.8	29.5	18.5	MAR. 30.....	1640	9610	19.5	17.0
NOV. 10.....	1550	4.0	11.5	6.0	MAY 04.....	1540	41	29.0	19.5
DEC. 22.....	1150	4.3	0.5	3.0	JUNE 28.....	1530	352	24.5	23.5
FEB. 10.....	1610	5.1	15.0	2.0	AUG. 01.....	1450	35	27.5	27.0
MAR. 24.....	1030	104	9.5	10.5					

WABASH RIVER BASIN --CONTINUED

03381000 SKILLET FORK NEAR MILL SHOALS, IL (LAT 38 13 47 LONG 088 20 51)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 05.....	1755	11	20.5	22.5	JUNE 22.....	1655	9.6	26.5	26.0
NOV. 17.....	1700	5.3	3.0	7.0	AUG. 11.....	1325	112	33.0	28.0
APR. 21.....	1215	56	19.0	20.0	SEPT.07.....	1520	23	31.0	31.0
MAY 17.....	1325	29	22.0	20.0					

03381500 LITTLE WABASH RIVER AT CARMI, IL (LAT 38 03 40 LONG 088 09 35)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 05.....	1425	50	24.0	20.0	APR. 08.....	1415	12100	10.0	12.5
NOV. 17.....	1125	43	14.0	5.5	MAY 23.....	1500	124	26.0	25.0
DEC. 30.....	1550	35	-6.5	3.5	JUNE 22.....	1330	53	24.0	25.5
JAN. 26.....	1615	31	2.0	2.0	JULY 20.....	1215	465	30.5	29.5
FEB. 16.....	1500	1730	-0.5	0.5	AUG. 24.....	1505	1000	28.0	25.5
APR. 04.....	1230	13600	17.0	14.5	SEPT.22.....	1530	140	28.0	23.5

SALINE RIVER BASIN

03382090 SUGAR CREEK NEAR STONEFORT, IL (LAT 37 39 19 LONG 088 45 48)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
MAR. 30.....	1345	56	28.0	16.0	AUG. 25.....	1110	0.32	31.0	25.0
JUNE 30.....	1330	4.2	32.0	26.5					

03382100 SOUTH FORK SALINE RIVER NEAR CARRIER MILLS, IL (LAT 37 38 16 LONG 088 40 40)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 07.....	1135	15	18.0	19.0	APR. 22.....	1530	255	23.0	19.0
OCT. 27.....	1000	11	9.0	10.0	MAY 05.....	1500	55	26.0	22.0
NOV. 18.....	1245	4.9	20.0	7.5	JUNE 09.....	1315	4.9	24.0	24.5
DEC. 10.....	1100	5.5	11.0	2.5	JULY 01.....	1240	24	31.5	26.5
JAN. 12.....	1430	3.8	-10.0	0.0	AUG. 11.....	1300	12	31.0	30.0
FEB. 03.....	1430	7.0	8.0	1.0	AUG. 26.....	1130	6.5	---	26.5
MAR. 03.....	1230	55	12.0	6.5	SEPT.14.....	1345	89	19.0	20.0
MAR. 29.....	1400	4710	27.0	15.5					

03382130 SOUTH FORK SALINE RIVER AT MITCHELLSVILLE, IL (LAT 37 39 30 LONG 088 32 14)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
MAR. 31.....	1645	4160	14.0	15.5	AUG. 24.....	1400	10	24.5	26.0
JUNE 30.....	1100	43	32.0	26.5					

03382170 BRUSHY CREEK NEAR HARCO, IL (LAT 37 46 30 LONG 088 39 08)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
DEC. 23.....	1505	0.05	0.5	0.5	MAR. 15.....	1300	6.8	29.0	14.0
FEB. 03.....	1210	0.12	7.0	0.5	MAR. 29.....	1130	38	27.0	14.5
MAR. 03.....	1630	243	10.0	7.0	APR. 22.....	1225	16	19.5	18.0
MAR. 04.....	1600	85	12.0	7.5	JUNE 29.....	1130	0.20	27.0	23.0

03382185 BANKSTON FORK NEAR DORRIS HEIGHTS, IL (LAT 37 46 05 LONG 088 32 25)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
MAR. 30.....	1600	656	28.0	19.0	AUG. 25.....	1440	4.6	31.5	25.0
JUNE 29.....	1330	23	27.5	25.5					

03382320 HECTOR CREEK NEAR TEXAS CITY, IL (LAT 37 53 01 LONG 088 26 05)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
MAR. 31.....	1230	53	14.0	12.5	AUG. 26.....	1520	2.9	34.5	30.0
JUNE 29.....	1500	2.3	27.5	35.0					

03382510 EAGLE CREEK NEAR EQUALITY, IL (LAT 37 39 03 LONG 088 23 28)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 05.....	1315	0.04	27.0	18.5	MAR. 24.....	1310	2.8	12.5	10.0
NOV. 11.....	1100	0.11	3.0	5.5	MAR. 28.....	1330	356	19.0	14.0
DEC. 27.....	1145	0.17	8.5	1.5	MAY 05.....	1235	1.9	24.0	20.5
JAN. 25.....	1340	0.39	1.0	0.0	JUNE 16.....	1155	0.05	27.0	22.5
FEB. 22.....	1200	0.75	22.0	5.5	AUG. 02.....	1325	0.11	27.0	23.0

LUSK CREEK BASIN

03384450 LUSK CREEK NEAR EDDYVILLE, IL (LAT 37 28 20 LONG 088 32 50)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
NOV. 11.....	0945	0.21	3.0	5.0	MAR. 24.....	1515	20	18.0	11.0
DEC. 27.....	1320	0.32	10.0	2.0	MAR. 28.....	1700	974	20.5	13.0
JAN. 25.....	1135	0.52	2.5	1.0	MAY 05.....	1435	18	25.0	18.5
FEB. 22.....	1630	3.1	19.5	5.0	JUNE 16.....	1330	0.16	31.0	23.5
MAR. 04.....	1145	461	19.5	11.5	AUG. 02.....	1200	0.44	28.0	22.5

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
CACHE RIVER BASIN									
03612000 CACHE RIVER AT FORMAN, IL (LAT 37 20 11 LONG 088 55 26)									
OCT. 06.....	1100	2.1	22.0	7.5	APR. 27.....	1530	503	26.0	15.5
NOV. 10.....	1515	2.4	12.5	7.0	MAY 23.....	1315	21	28.0	23.0
DEC. 28.....	0950	3.4	1.0	1.0	JUNE 22.....	1250	1.4	30.0	24.5
JAN. 19.....	1445	5.1	-6.0	0.5	JULY 21.....	1300	2.4	33.0	29.0
FEB. 23.....	1100	21	18.5	1.5	AUG. 23.....	1600	13	31.0	23.5
MAR. 18.....	1350	489	14.5	13.0	SEPT.22.....	1355	33	27.5	20.0
MAR. 29.....	1405	5850	23.0	10.0					
SINSINAWA RIVER BASIN									
05414820 SINSINAWA RIVER NEAR MENOMINEE, IL (LAT 42 28 44 LONG 090 29 10)									
OCT. 19.....	0915	11	4.0	6.5	APR. 20.....	1000	8.3	20.5	17.5
NOV. 02.....	1430	8.6	14.5	8.5	JUNE 01.....	1230	7.0	17.0	19.0
DEC. 15.....	1100	9.2	1.0	0.0	JULY 12.....	1710	8.9	31.0	29.0
JAN. 25.....	1130	8.3	-3.0	0.0	AUG. 24.....	0955	9.0	18.5	16.0
MAR. 01.....	1230	16	2.0	0.0					
APPLE RIVER BASIN									
05419000 APPLE RIVER NEAR HANOVER, IL (LAT 42 15 05 LONG 090 17 10)									
NOV. 02.....	1720	30	10.5	6.5	APR. 19.....	1630	32	21.0	21.0
DEC. 15.....	1335	29	4.0	0.0	JUNE 01.....	0930	25	20.5	22.5
JAN. 06.....	1450	30	-6.1	0.0	JUNE 15.....	1630	29	27.0	23.0
JAN. 25.....	1320	25	7.0	0.0	AUG. 23.....	1500	59	19.0	21.0
MAR. 09.....	0930	51	14.0	2.0					
PLUM RIVER BASIN									
05420000 PLUM RIVER BELOW CARROLL CREEK NEAR SAVANNA, IL (LAT 42 06 50 LONG 090 05 35)									
NOV. 03.....	1200	25	8.0	4.5	MAY 31.....	1545	26	21.5	21.5
DEC. 15.....	1700	17	-4.0	0.0	JUNE 17.....	1100	22	28.0	24.0
JAN. 26.....	1020	14	-5.0	0.0	JULY 12.....	1230	13	33.0	27.5
MAR. 08.....	1630	44	13.5	1.5	AUG. 23.....	1345	56	22.0	21.0
APR. 19.....	1300	26	19.0	25.0					
ROCK RIVER BASIN									
05435500 PECATONICA RIVER AT FREEPORT, IL (LAT 42 18 13 LONG 089 36 57)									
NOV. 04.....	1105	330	3.5	4.0	APR. 20.....	1300	350	25.0	20.0
DEC. 14.....	1730	210	-8.0	0.0	MAY 25.....	1300	322	32.0	25.0
JAN. 24.....	1800	206	0.5	0.0	JULY 13.....	1500	274	29.0	26.5
MAR. 01.....	1615	1670	3.0	0.0	JULY 26.....	1310	1640	25.0	23.0
MAR. 28.....	1240	452	13.5	11.0	AUG. 24.....	1450	437	24.5	19.5
05437500 ROCK RIVER AT ROCKTON, IL (LAT 42 26 55 LONG 089 04 11)									
NOV. 04.....	1515	1360	6.5	6.0	APR. 21.....	1230	3030	17.0	19.0
DEC. 14.....	1255	1250	4.0	0.0	MAY 26.....	1000	1060	22.0	25.5
JAN. 24.....	1230	1080	-0.5	0.0	JULY 14.....	1220	1070	32.0	28.0
MAR. 01.....	1140	4330	1.0	0.5	AUG. 25.....	1000	1900	13.0	19.0
MAR. 10.....	0830	3400	4.5	1.5					
05438250 COON CREEK AT RILEY, IL (LAT 42 10 58 LONG 088 36 28)									
NOV. 04.....	1430	8.1	3.0	3.0	APR. 22.....	1615	24	14.5	14.0
DEC. 10.....	1400	6.7	-5.0	0.0	MAY 26.....	1510	15	29.5	26.0
JAN. 19.....	1530	3.0	-15.0	0.0	JUNE 10.....	1445	23	22.0	17.0
MAR. 01.....	1400	14	3.0	0.0	JULY 15.....	1430	8.1	34.0	30.5
MAR. 11.....	1005	28	16.5	3.5	AUG. 26.....	1000	7.2	21.0	19.0
05438500 KISHWAUKEE RIVER AT BELVIDERE, IL (LAT 42 15 22 LONG 088 51 50)									
NOV. 01.....	1325	98	12.0	7.0	APR. 22.....	1210	183	17.0	17.0
DEC. 16.....	1530	65	2.0	0.0	JUNE 02.....	1540	110	24.0	21.0
JAN. 20.....	1630	38	-2.0	0.0	JULY 15.....	1300	43	32.0	30.0
MAR. 10.....	1330	226	10.0	4.0	AUG. 25.....	1600	64	26.0	22.5

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)	DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)
ROCK RIVER BASIN --CONTINUED									
05439500 SOUTH BRANCH KISHWAUKEE RIVER NEAR FAIRDALE, IL (LAT 42 06 40 LONG 088 54 00)									
NOV. 05.....	1345	19	7.0	4.0	APR. 18.....	1100	44	25.5	19.5
DEC. 13.....	1200	17	-8.0	0.0	MAY 25.....	1010	42	23.0	21.5
JAN. 19.....	1130	10	-12.0	0.0	JUNE 27.....	1235	31	29.0	26.0
MAR. 01.....	1100	34	-2.0	0.0	JULY 26.....	0955	31	22.0	21.5
MAR. 11.....	1205	117	17.5	3.0	AUG. 22.....	1040	55	22.0	19.5
05440000 KISHWAUKEE RIVER NEAR PERRYVILLE, IL (LAT 42 11 45 LONG 088 59 55)									
OCT. 15.....	1725	129	9.0	13.0	APR. 21.....	1530	259	17.0	17.0
NOV. 01.....	1530	170	9.5	7.0	MAY 26.....	1300	184	32.0	26.0
DEC. 13.....	1545	136	-6.5	0.0	JULY 14.....	1600	100	30.5	32.0
JAN. 20.....	1320	79	3.0	0.0	AUG. 25.....	1330	146	25.0	19.0
MAR. 10.....	1515	356	15.0	6.5					
05444000 ELKHORN CREEK NEAR PENROSE, IL (LAT 41 54 10 LONG 089 41 40)									
NOV. 03.....	1430	26	4.5	6.0	APR. 19.....	1000	31	17.5	17.5
DEC. 16.....	1100	27	4.0	0.0	MAY 31.....	1130	30	27.0	23.0
JAN. 27.....	1100	23	-8.0	0.0	JULY 11.....	1630	27	30.0	28.0
MAR. 08.....	1045	41	13.0	6.0	AUG. 22.....	1600	53	27.0	22.5
05446500 ROCK RIVER NEAR JOSLIN, IL (LAT 41 33 35 LONG 090 10 55)									
NOV. 02.....	1315	1870	---	8.0	MAY 23.....	1430	1580	---	26.0
DEC. 06.....	1345	3030	---	0.0	JUNE 20.....	1500	2910	---	26.5
JAN. 03.....	1330	1450	---	0.0	JULY 26.....	1415	4490	---	27.0
FEB. 09.....	1000	1610	---	0.0	AUG. 31.....	1330	3970	---	25.0
MAR. 08.....	1430	4870	---	3.0	SEPT.30.....	1045	3920	---	18.0
APR. 25.....	1230	3840	---	16.4					
05447500 GREEN RIVER NEAR GENESEO, IL (LAT 41 29 20 LONG 090 09 30)									
OCT. 05.....	1445	103	9.0	13.0	JUNE 08.....	1010	128	20.5	19.0
NOV. 10.....	1700	82	0.0	3.0	JULY 14.....	1000	92	32.0	24.0
DEC. 21.....	1100	82	-18.0	0.0	JULY 18.....	1300	339	26.0	23.0
FEB. 01.....	1100	33	-11.0	0.0	AUG. 08.....	1230	352	24.0	21.0
MAR. 09.....	0800	181	10.0	6.5	AUG. 30.....	1115	537	24.5	21.0
APR. 26.....	0930	143	8.5	11.5					
05448000 MILL CREEK AT MILAN, IL (LAT 41 26 35 LONG 090 33 15)									
OCT. 05.....	1630	12	10.0	13.0	JUNE 08.....	1200	2.5	21.0	2.2
NOV. 10.....	1300	1.6	2.0	3.0	JUNE 21.....	1130	0.71	27.0	24.0
DEC. 21.....	1400	0.42	-7.0	0.0	JUNE 30.....	1345	428	26.5	21.5
JAN. 31.....	1530	0.00	-15.0	0.0	JULY 18.....	1730	1110	25.0	21.5
MAR. 09.....	1530	10	14.0	8.5	JULY 19.....	0845	73	33.0	22.0
APR. 05.....	1445	29	7.0	6.5	AUG. 31.....	0925	18	25.5	22.5
APR. 27.....	0930	5.6	20.0	13.0					
EDWARDS RIVER BASIN									
05466000 EDWARDS RIVER NEAR ORION, IL (LAT 41 16 20 LONG 090 22 40)									
NOV. 12.....	1035	1.9	-3.0	0.0	JULY 13.....	1100	4.4	26.0	20.5
APR. 27.....	1200	16	26.5	18.5	AUG. 18.....	1400	33	22.0	23.5
JUNE 07.....	1130	7.3	23.5	21.5	SEPT.27.....	0850	86	14.5	14.5
05466500 EDWARDS RIVER NEAR NEW BOSTON, IL (LAT 41 11 15 LONG 090 58 05)									
NOV. 12.....	1225	17	-1.0	2.0	APR. 26.....	1610	52	23.5	19.5
DEC. 21.....	1640	11	-7.0	0.0	JUNE 08.....	1400	26	20.5	21.5
JAN. 04.....	1210	6.7	-3.5	0.0	JULY 12.....	1300	36	28.0	22.5
JAN. 27.....	1445	12	0.0	0.0	JULY 13.....	1120	25	29.0	24.5
FEB. 09.....	1430	5.8	---	0.0	AUG. 09.....	1300	1090	20.5	23.5
MAR. 09.....	1245	69	23.0	6.0	AUG. 17.....	1400	405	23.0	21.5
MAR. 16.....	1400	81	13.5	5.5	SEPT.27.....	1300	275	18.0	17.5

POPE CREEK BASIN

05467000 POPE CREEK NEAR KEITHSBURG, IL (LAT 41 07 45 LONG 090 55 14)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
NOV. 12.....	1320	5.1	0.0	2.0	JUNE 08.....	1540	16	---	20.5
DEC. 15.....	1230	2.3	0.0	1.0	JULY 12.....	1300	11	28.0	24.0
JAN. 27.....	1630	2.7	-6.0	2.0	JULY 13.....	1030	5.8	26.5	23.5
FEB. 09.....	1350	2.7	---	0.0	AUG. 08.....	1645	1890	25.5	21.0
MAR. 09.....	1500	24	18.0	7.0	AUG. 17.....	1300	192	26.0	21.5
MAR. 16.....	1450	24	6.5	7.5	SEPT.27.....	1520	104	21.0	17.5
APR. 26.....	1410	14	22.0	18.5					

HENDERSON CREEK BASIN

05469000 HENDERSON CREEK NEAR OQUAWKA, IL (LAT 41 00 05 LONG 090 51 15)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
NOV. 17.....	1045	37	4.0	1.0	MAR. 17.....	0930	133	6.5	6.5
DEC. 15.....	1015	21	-1.0	0.0	APR. 26.....	1215	91	22.5	14.5
JAN. 04.....	0915	11	-3.5	0.0	JUNE 06.....	0935	47	35.5	26.5
JAN. 14.....	1130	16	-1.0	0.0	JULY 13.....	0855	31	22.0	23.5
FEB. 09.....	1015	15	-1.0	0.0	AUG. 16.....	1530	410	28.0	22.5
MAR. 09.....	1130	91	20.0	6.0	SEPT.28.....	1030	353	16.5	15.0

BEAR CREEK BASIN

05495500 BEAR CREEK NEAR MARCELLINE, IL (LAT 40 08 34 LONG 091 20 14)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
NOV. 02.....	0925	1.7	11.5	7.0	JUNE 02.....	1500	1.7	35.0	28.0
DEC. 07.....	1645	1.1	-5.0	0.0	JUNE 28.....	1225	0.95	26.0	26.0
JAN. 18.....	1625	0.32	---	0.0	JULY 11.....	1345	24	30.0	25.5
MAR. 08.....	1600	6.5	24.0	10.0	AUG. 09.....	1320	370	22.0	21.5
JUNE 01.....	1200	2.1	---	23.0	SEPT.20.....	1150	98	16.5	18.0

HADLEY CREEK BASIN

05502040 HADLEY CREEK AT KINDERHOOK, IL (LAT 39 41 35 LONG 091 08 55)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 29.....	0910	1.9	4.0	4.5	APR. 19.....	1420	4.5	20.0	20.0
NOV. 11.....	0945	1.7	-0.5	3.5	MAY 05.....	1605	210	28.0	21.0
DEC. 15.....	1230	2.0	4.5	2.0	MAY 10.....	1230	40	17.0	17.0
FEB. 02.....	1040	0.93	-5.0	0.0	MAY 19.....	1320	9.0	30.0	27.0
MAR. 17.....	1425	12	8.0	8.5	JUNE 29.....	1530	0.51	29.0	24.0
MAR. 28.....	1755	617	16.0	14.0	AUG. 16.....	1250	0.72	28.0	30.0

BAY CREEK BASIN

05512500 BAY CREEK AT PITTSFIELD, IL (LAT 39 37 30 LONG 090 47 40)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
NOV. 16.....	1000	0.22	3.5	4.5	MAR. 18.....	0820	41	6.0	8.0
DEC. 14.....	1615	0.52	10.0	2.0	APR. 19.....	1015	1.7	21.0	17.5
JAN. 21.....	1200	0.62	-4.0	1.0	MAY 19.....	1040	3.0	26.0	22.0
FEB. 01.....	1630	0.43	-2.0	0.5	JUNE 29.....	1245	0.75	30.0	24.0
MAR. 17.....	1050	1.9	8.0	9.0	AUG. 16.....	1020	0.35	26.0	24.0

05513000 BAY CREEK AT NEBO, IL (LAT 39 26 35 LONG 090 47 45)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 28.....	1605	5.9	12.5	8.5	APR. 19.....	1630	15	22.5	20.0
NOV. 15.....	1635	2.1	9.0	4.5	MAY 05.....	1410	1380	28.5	21.0
DEC. 15.....	1520	2.6	12.0	2.0	MAY 06.....	1450	6440	23.0	21.0
FEB. 02.....	1350	1.5	-2.0	0.0	MAY 19.....	1520	28	32.0	26.0
MAR. 18.....	1055	224	9.0	8.0	JUNE 30.....	1000	4.5	27.0	25.0
MAR. 29.....	1550	1930	16.0	14.0	AUG. 16.....	1630	4.3	27.5	28.0

ILLINOIS RIVER BASIN

05520500 KANKAKEE RIVER AT MOMENCE, IL (LAT 41 09 36 LONG 087 40 07)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
NOV. 04.....	0830	786	1.0	5.5	MAY 12.....	0900	2380	20.0	19.0
JAN. 11.....	1410	724	-5.0	0.0	AUG. 02.....	1600	594	25.0	24.0
MAR. 09.....	0900	3350	---	5.0	SEPT.13.....	1200	1070	20.0	18.0
APR. 06.....	1415	4880	6.0	7.5					

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
ILLINOIS RIVER BASIN --CONTINUED									
05525000 IROQUOIS RIVER AT IROQUOIS, IL (LAT 40 49 25 LONG 087 34 55)									
NOV. 04......	1415	57	5.0	5.5	APR. 05......	1055	1380	3.0	1.5
DEC. 21......	1335	67	-7.0	0.0	MAY 13......	1040	666	23.0	19.0
JAN. 10......	1430	25	-8.0	0.0	SEPT.12......	1345	144	19.0	17.5
MAR. 07......	1255	1040	10.0	2.0					
05525500 SUGAR CREEK AT MILFORD, IL (LAT 40 37 50 LONG 087 43 25)									
NOV. 01......	1330	12	12.0	7.0	AUG. 01......	1515	8.2	26.0	25.0
NOV. 29......	1245	6.6	7.0	0.0	AUG. 17......	1155	559	26.0	21.5
JAN. 10......	1130	4.3	8.0	0.0	AUG. 23......	1245	223	22.0	20.0
MAR. 07......	1505	105	6.0	3.5	SEPT.10......	0900	46	16.5	18.5
MAR. 30......	1415	1010	18.0	12.0					
MAY 12......	1405	359	24.0	19.0					
05526000 IROQUOIS RIVER NEAR CHEBANSE, IL (LAT 41 00 29 LONG 087 49 22)									
NOV. 04......	1145	98	3.0	6.0	APR. 05......	1410	3260	1.0	2.5
JAN. 11......	1005	40	-5.0	0.0	MAY 12......	1440	3070	22.0	19.5
MAR. 09......	1335	1640	21.0	3.5	SEPT.13......	1500	546	20.0	18.0
05527500 KANKAKEE RIVER NEAR WILMINGTON, IL (LAT 41 20 48 LONG 088 11 11)									
OCT. 28......	1040	1010	---	6.4	MAY 11......	1400	8930	---	16.6
NOV. 03......	1250	937	---	8.0	MAY 23......	1200	2530	31.5	21.0
DEC. 08......	1000	1000	---	0.0	JUNE 22......	1400	1710	---	24.9
JAN. 11......	1615	900	---	0.0	JULY 23......	1130	930	---	27.0
FEB. 28......	1345	5000	---	0.0	AUG. 05......	1130	695	---	25.8
MAR. 24......	1300	7190	8.0	7.5	SEPT.14......	1530	4080	---	19.5
APR. 11......	1115	6790	---	13.4					
05527800 DES PLAINES RIVER AT RUSSELL, IL (LAT 42 29 22 LONG 087 55 32)									
OCT. 26......	1300	13	3.0	5.0	APR. 14......	0930	21	9.0	12.0
DEC. 08......	1500	3.3	-12.0	0.0	MAY 24......	1025	4.6	28.0	24.0
JAN. 31......	1320	1.0	-15.0	0.0	AUG. 16......	1200	2.2	27.0	25.0
MAR. 03......	1500	4.4	0.0	0.0					
05528000 DES PLAINES RIVER NEAR GURNEE, IL (LAT 42 20 39 LONG 087 56 18)									
OCT. 26......	1645	25	6.0	10.0	MAR. 31......	1000	161	6.0	10.0
OCT. 27......	1415	24	---	11.2	APR. 20......	1430	72	18.0	20.0
NOV. 29......	1430	17	-10.0	4.0	MAY 18......	1230	26	28.0	25.0
DEC. 29......	1400	12	-15.0	2.5	JUNE 28......	1615	26	32.0	26.5
JAN. 28......	1100	8.3	-20.0	1.6	JULY 20......	1115	15	32.0	29.0
FEB. 24......	1030	23	-4.0	5.5	AUG. 16......	1430	20	26.5	26.0
MAR. 30......	1500	173	---	12.0	SEPT.19......	1330	30	20.0	22.5
05528500 BUFFALO CREEK NEAR WHEELING, IL (LAT 42 09 05 LONG 087 57 25)									
OCT. 19......	1245	0.62	9.0	7.0	JUNE 28......	1605	0.06	32.0	23.0
NOV. 30......	1600	0.49	-6.0	1.0	JUNE 30......	1500	23	22.5	20.5
FEB. 24......	0915	26	3.0	0.0	AUG. 09......	1500	5.4	18.0	21.0
APR. 05......	1610	16	2.0	6.5	SEPT.20......	1715	5.2	14.0	16.5
MAY 17......	1550	2.7	25.5	24.0	SEPT.23......	1155	2.0	19.5	16.0
05529000 DES PLAINES RIVER NEAR DES PLAINES, IL (LAT 42 04 55 LONG 087 53 25)									
OCT. 19......	1600	35	7.0	8.0	MAY 17......	1245	52	28.0	23.0
DEC. 01......	1000	32	-8.0	0.0	JUNE 29......	0900	35	28.0	23.5
JAN. 11......	1355	22	-15.0	0.0	AUG. 09......	1630	93	20.0	24.5
FEB. 23......	16[illegible]	65	12.0	0.0	SEPT.20......	1515	72	16.0	18.5
APR. 05......	1315	215	5.0	8.0					
05529500 MC DONALD CREEK NEAR MOUNT PROSPECT, IL (LAT 42 05 42 LONG 087 54 46)									
OCT. 19......	1445	0.34	7.0	7.5	MAY 17......	1420	0.39	28.5	25.0
NOV. 30......	1455	0.26	-8.0	0.0	JUNE 30......	1600	22	21.0	20.5
FEB. 24......	1045	8.6	0.0	0.0	AUG. 09......	1330	3.3	21.5	21.0
APR. 05......	1455	4.6	7.5	7.5	SEPT.20......	1410	1.9	14.0	16.5
05530000 WELLER CREEK AT DES PLAINES, IL (LAT 42 02 58 LONG 087 55 05)									
OCT. 20......	1300	1.5	7.0	8.5	MAY 17......	1100	2.3	28.0	22.0
DEC. 01......	1130	1.3	-5.0	2.0	JUNE 29......	1215	1.2	27.0	23.5
JAN. 12......	1100	1.5	-18.0	0.0	AUG. 09......	1215	2.2	21.5	20.5
FEB. 24......	1240	4.6	0.0	3.0	SEPT.20......	1115	1.6	16.0	15.5
APR. 05......	1010	3.6	2.0	8.0					

ILLINOIS RIVER BASIN --CONTINUED

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
05530990 SALT CREEK AT ROLLING MEADOWS, IL (LAT 42 03 37 LONG 088 00 59)									
OCT. 20.....	1130	1.8	3.0	8.0	JUNE 29.....	1400	0.31	24.0	22.0
DEC. 01.....	1400	0.53	-8.0	0.5	JUNE 30.....	1320	182	20.5	20.5
FEB. 24.....	1500	42	-1.0	0.0	AUG. 10.....	0935	10.0	23.0	22.0
APR. 06.....	1145	19	9.0	4.5	SEPT.20.....	1230	12	14.0	16.5
MAY 18.....	0945	3.0	25.0	22.0					
05531500 SALT CREEK AT WESTERN SPRINGS, IL (LAT 41 49 35 LONG 087 54 00)									
OCT. 21.....	1000	36	6.0	7.5	MAY 18.....	1515	75	31.0	24.0
DEC. 01.....	1630	31	-8.0	0.5	JULY 01.....	1245	301	21.0	20.0
JAN. 13.....	1045	31	-15.0	0.0	AUG. 10.....	1525	249	28.0	24.0
FEB. 25.....	1045	67	10.0	3.0	SEPT.22.....	1345	105	20.0	18.0
APR. 07.....	1010	103	12.0	8.0					
05532000 ADDISON CREEK AT BELLWOOD, IL (LAT 41 52 48 LONG 087 52 07)									
OCT. 22.....	1125	3.3	0.0	4.0	MAY 18.....	1130	5.6	30.0	23.0
DEC. 02.....	1445	2.9	-10.0	0.0	JUNE 29.....	1540	9.4	27.5	23.5
JAN. 12.....	1430	3.8	-12.0	0.0	JUNE 30.....	1255	323	21.5	20.5
FEB. 25.....	1720	5.0	8.0	0.0	AUG. 10.....	1105	38	24.0	27.5
APR. 06.....	1420	9.7	9.0	8.0	SEPT.21.....	0945	11	14.0	16.5
05532500 DES PLAINES RIVER AT RIVERSIDE, IL (LAT 41 49 20 LONG 087 49 15)									
OCT. 21.....	1445	81	10.0	7.5	MAY 18.....	1310	154	28.0	24.0
DEC. 02.....	1200	73	-12.0	0.0	JULY 01.....	1015	1450	23.5	20.0
JAN. 13.....	1200	69	-8.0	0.0	AUG. 10.....	1300	691	27.5	23.0
FEB. 25.....	1525	241	2.0	0.0	SEPT.21.....	1135	232	14.0	17.0
APR. 07.....	1500	343	15.0	9.5					
05533000 FLAG CREEK NEAR WILLOW SPRINGS, IL (LAT 41 44 20 LONG 087 53 48)									
OCT. 21.....	1200	4.1	9.0	10.0	JUNE 30.....	0940	56	19.0	18.5
DEC. 02.....	0915	6.2	-16.0	0.0	JUNE 30.....	1700	317	22.0	20.5
JAN. 13.....	1220	5.3	-12.0	0.0	AUG. 11.....	0900	32	18.0	22.0
FEB. 25.....	1215	9.6	4.0	6.0	SEPT.01.....	1220	383	28.0	22.0
APR. 07.....	1150	13	15.0	11.0	SEPT.22.....	1150	13	17.0	16.5
MAY 19.....	0915	7.2	24.0	19.0					
05534500 NORTH BRANCH CHICAGO RIVER AT DEERFIELD, IL (LAT 42 09 10 LONG 087 49 07)									
OCT. 18.....	1230	0.49	11.0	6.5	MAY 16.....	1515	1.2	26.0	22.0
NOV. 30.....	0920	1.1	-10.0	0.5	JUNE 27.....	1700	0.91	22.0	29.0
JAN. 10.....	1645	0.24	-10.0	0.0	AUG. 08.....	1645	12	25.0	22.0
FEB. 23.....	1045	4.8	10.0	0.0	SEPT.19.....	1600	5.2	19.0	20.5
APR. 04.....	1645	14	9.0	7.0					
05535000 SKOKIE RIVER AT LAKE FOREST, IL (LAT 42 13 57 LONG 087 50 41)									
OCT. 18.....	1410	1.3	15.0	8.0	MAY 16.....	1030	2.0	20.0	18.0
NOV. 29.....	1115	1.2	-14.0	0.0	JUNE 27.....	1200	1.8	25.0	21.0
JAN. 10.....	1300	1.6	-10.0	0.0	AUG. 08.....	1127	26	22.0	21.0
FEB. 22.....	1245	2.0	8.0	0.0	SEPT.19.....	1050	5.1	18.0	19.5
APR. 04.....	1135	11	9.0	8.0					
05535070 SKOKIE RIVER NEAR HIGHLAND PARK, IL (LAT 42 09 34 LONG 087 47 52)									
OCT. 18.....	1700	1.9	10.5	8.0	MAY 16.....	1155	4.1	27.0	19.0
NOV. 29.....	1415	1.2	-12.0	0.0	JUNE 27.....	1530	3.3	33.5	25.0
FEB. 22.....	1525	7.0	3.0	0.0	AUG. 08.....	1340	32	23.0	21.0
APR. 04.....	1310	15	8.0	8.0	SEPT.19.....	1210	11	21.5	19.0
05535500 WEST FK OF N BR CHICAGO RIVER AT NORTHBROOK, IL (LAT 42 08 18 LONG 087 50 04)									
OCT. 19.....	1100	3.4	6.0	12.0	MAY 16.....	1350	4.7	25.5	23.5
NOV. 30.....	0935	2.1	-1.0	1.0	JUNE 28.....	1045	2.5	29.5	22.0
JAN. 11.....	0920	1.9	-15.0	0.0	AUG. 09.....	0845	5.2	22.0	21.0
FEB. 23.....	1200	11	8.0	6.0	SEPT.19.....	1410	8.6	19.0	21.5
APR. 05.....	0940	9.2	3.0	7.0					
05536000 NORTH BRANCH CHICAGO RIVER AT NILES, IL (LAT 42 00 44 LONG 087 47 45)									
OCT. 20.....	1345	18	10.0	8.0	MAY 17.....	0915	25	23.0	22.0
NOV. 30.....	1215	22	-6.0	0.5	JUNE 28.....	1245	23	27.5	25.0
JAN. 11.....	1115	19	-14.0	0.0	AUG. 09.....	1010	82	21.0	23.0
FEB. 23.....	1410	53	12.0	3.0	SEPT.20.....	0910	58	13.0	18.5
APR. 05.....	1107	102	2.0	8.0					

ILLINOIS RIVER BASIN --CONTINUED

05536210 THORN CREEK NEAR CHICAGO HEIGHTS, IL (LAT 41 30 50 LONG 087 38 07)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)	DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)
OCT. 01.....	1215	0.56	25.0	13.5	JUNE 01.....	1235	0.32	19.0	19.0
NOV. 01.....	1400	0.56	8.0	7.0	JULY 01.....	1325	17	24.0	22.0
DEC. 01.....	1515	0.94	-6.0	0.5	JULY 29.....	1100	6.3	23.5	22.5
JAN. 03.....	1320	0.33	-3.0	0.5	AUG. 08.....	1145	38	22.5	22.0
FEB. 01.....	1200	0.91	2.0	0.0	AUG. 29.....	1410	8.8	24.0	24.0
MAR. 02.....	1145	2.0	10.0	2.0	SEPT.01.....	1200	41	25.5	24.0
MAR. 31.....	1330	12	10.0	9.0	SEPT.29.....	1040	1.9	17.5	15.0
MAY 02.....	1340	2.9	15.0	15.0					

05536215 THORN CREEK AT GLENWOOD, IL (LAT 41 31 50 LONG 087 36 20)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)	DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)
OCT. 01.....	1120	18	16.5	19.0	JUNE 01.....	1050	18	18.5	19.5
NOV. 01.....	1150	23	10.0	16.0	JULY 01.....	1200	53	24.0	21.0
DEC. 01.....	1330	18	-3.0	14.0	AUG. 01.....	1200	19	25.0	24.0
JAN. 03.....	1140	17	-4.0	11.0	AUG. 08.....	1235	102	2.1	22.0
FEB. 01.....	1045	18	-5.0	9.0	AUG. 29.....	1240	42	23.5	23.0
MAR. 02.....	0945	18	2.0	10.0	SEPT.01.....	1325	123	25.0	23.5
MAR. 31.....	1125	38	9.0	12.0	SEPT.29.....	1150	25	18.0	20.5
MAY 02.....	1115	28	12.0	17.0					

05536235 DEER CREEK NEAR CHICAGO HEIGHTS, IL (LAT 41 31 15 LONG 087 35 25)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)	DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)
OCT. 13.....	1100	1.3	18.5	13.0	MAY 02.....	1505	2.6	12.0	14.0
NOV. 18.....	1240	2.0	8.0	5.0	JUNE 15.....	1240	1.6	24.0	18.0
JAN. 12.....	1100	1.1	-14.0	0.0	JULY 27.....	1350	0.49	25.0	23.0
FEB. 15.....	1430	8.8	-5.0	0.0	SEPT.01.....	1300	16	25.0	22.5
MAR. 22.....	1140	23	3.0	0.5	SEPT.13.....	1240	27	17.0	18.0

05536255 BUTTERFIELD CREEK AT FLOSSMOOR, IL (LAT 41 32 25 LONG 087 38 55)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)	DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)
OCT. 13.....	1315	0.04	19.0	14.0	JUNE 15.....	1430	0.51	26.0	21.5
FEB. 15.....	1610	3.6	-5.0	0.5	SEPT.01.....	1115	147	25.5	22.5
MAR. 23.....	1420	29	9.0	7.0	SEPT.08.....	1050	21	21.5	19.0
MAY 04.....	1335	1.00	24.0	16.0					

05536265 LANSING DITCH NEAR LANSING, IL (LAT 41 31 40 LONG 087 31 45)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)	DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)
OCT. 13.....	0915	5.8	17.0	12.0	JUNE 15.....	1105	6.9	27.0	15.0
NOV. 18.....	1110	6.0	8.5	5.5	JULY 27.....	1055	7.0	26.0	15.5
JAN. 12.....	0845	5.9	-19.0	0.5	AUG. 08.....	1335	4.7	22.0	21.0
FEB. 14.....	1135	15	4.0	1.0	SEPT.01.....	1050	15	25.5	22.5
MAR. 22.....	0910	6.9	2.0	1.0	SEPT.13.....	1115	14	19.0	16.5
MAY 02.....	1745	5.8	14.0	12.0					

05536270 NORTH CREEK NEAR LANSING, IL (LAT 41 32 45 LONG 087 33 30)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)	DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)
OCT. 12.....	1630	5.5	17.0	15.5	JUNE 15.....	0915	7.3	26.0	16.0
NOV. 18.....	0950	7.2	2.0	3.0	JUNE 23.....	0900	7.2	19.5	16.5
JAN. 11.....	1545	5.8	-13.0	0.0	JULY 27.....	0835	7.6	18.5	17.0
FEB. 14.....	1615	14	5.0	0.5	AUG. 08.....	1450	16	24.0	22.0
MAR. 22.....	1430	26	4.0	6.0	SEPT.01.....	1430	45	26.5	22.5
MAY 04.....	0855	5.4	20.0	15.0	SEPT.13.....	1020	22	18.0	19.0

05536275 THORN CREEK AT THORNTON, IL (LAT 41 34 05 LONG 087 36 30)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)	DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)
OCT. 08.....	1030	33	11.5	12.5	MAY 04.....	1130	31	22.0	15.5
NOV. 17.....	1600	20	9.5	6.5	JUNE 14.....	1555	38	24.0	19.5
JAN. 11.....	1220	23	-15.0	0.5	JULY 27.....	1650	26	22.0	25.0
FEB. 14.....	1630	75	-3.0	2.0	SEPT.01.....	1430	477	28.0	22.0
MAR. 21.....	1630	159	4.0	6.0	SEPT.12.....	1305	28	16.0	19.0

05536290 LITTLE CALUMET RIVER AT SOUTH HOLLAND, IL (LAT 41 36 05 LONG 087 34 38)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)	DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)
OCT. 08.....	1245	66	14.5	13.0	MAY 03.....	1600	63	21.0	17.0
NOV. 17.....	1355	44	8.5	5.0	JUNE 14.....	1410	63	26.0	19.5
JAN. 11.....	1050	30	-18.0	0.0	JULY 26.....	1545	26	22.5	24.0
FEB. 15.....	1130	105	-3.0	1.0	SEPT.01.....	1535	870	22.5	22.0
MAR. 23.....	1110	358	5.0	6.0	SEPT.12.....	1305	56	16.5	19.0

05536340 MIDLOTHIAN CREEK AT OAK FOREST, IL (LAT 41 36 51 LONG 087 43 46)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)	DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	AIR TEMPER-ATURE (DEG C)	WATER TEMPER-ATURE (DEG C)
OCT. 07.....	1500	7.5	11.0	10.5	MAY 04.....	1300	1.4	24.0	16.0
NOV. 16.....	1615	0.26	5.5	1.0	JUNE 15.....	1600	3.9	26.0	21.0
JAN. 10.....	1430	0.14	-9.0	0.0	JULY 28.....	1355	0.89	25.0	23.0
FEB. 16.....	1010	2.7	-7.0	0.0	SEPT.08.....	1255	19	26.0	21.0
MAR. 24.....	1435	10.0	12.0	7.0					

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
ILLINOIS RIVER BASIN --CONTINUED									
05536500 TINLEY CREEK NEAR PALOS PARK, IL (LAT 41 38 48 LONG 087 45 59)									
NOV. 16.....	1500	0.05	8.5	3.0	MAY 04.....	1650	0.93	24.0	16.0
FEB. 16.....	1305	2.1	-5.0	0.0	JUNE 16.....	1200	0.66	28.0	20.0
MAR. 24.....	1555	7.1	12.0	6.0	SEPT.08.....	1405	3.1	25.0	20.0
05537500 LONG RUN NEAR LEMONT, IL (LAT 41 38 33 LONG 087 59 57)									
OCT. 07.....	1100	1.6	8.0	10.0	MAY 05.....	1200	123	26.0	17.0
JAN. 18.....	1515	0.01	-6.5	0.0	JUNE 08.....	1100	0.39	21.0	15.0
FEB. 17.....	1150	0.82	0.0	0.0	AUG. 01.....	1710	0.13	26.0	25.0
MAR. 25.....	1340	5.6	17.0	9.0	SEPT.08.....	1535	16	23.5	21.5
05539000 HICKORY CREEK AT JOLIET, IL (LAT 41 31 10 LONG 088 04 10)									
OCT. 07.....	1215	24	8.0	10.5	JUNE 09.....	1040	7.3	19.0	18.0
NOV. 15.....	1515	10.0	5.0	2.0	JUNE 27.....	1330	7.0	34.0	26.5
JAN. 17.....	1330	5.1	-15.0	0.0	JULY 26.....	1055	6.8	21.0	24.0
FEB. 17.....	1500	8.8	-15.0	0.0	AUG. 29.....	1045	36	24.0	25.0
MAR. 28.....	1055	60	14.0	12.0	SEPT.01.....	1055	1150	26.5	21.0
APR. 27.....	1115	24	22.0	18.0					
05539900 WEST BRANCH DU PAGE RIVER NEAR WEST CHICAGO, IL (LAT 41 54 39 LONG 088 10 44)									
OCT. 29.....	1130	8.2	9.0	6.0	MAY 20.....	1000	14	26.0	19.0
DEC. 02.....	1400	8.5	-17.0	0.0	JULY 11.....	0930	10	25.0	19.0
JAN. 26.....	1310	12	-15.0	1.0	AUG. 08.....	1620	80	25.0	21.5
MAR. 01.....	1600	11	4.0	5.5	AUG. 23.....	0910	9.4	21.0	17.5
APR. 11.....	1400	15	27.0	18.0					
05540095 WEST BRANCH DU PAGE RIVER NEAR WARRENVILLE, IL (LAT 41 49 22 LONG 088 10 23)									
OCT. 27.....	1015	16	---	5.7	APR. 21.....	1045	190	---	15.0
NOV. 30.....	1330	14	---	0.0	MAY 17.....	1430	40	---	23.0
DEC. 28.....	1430	16	---	0.0	JUNE 28.....	1100	17	---	26.0
JAN. 27.....	1130	13	---	0.0	JULY 19.....	1130	39	---	27.0
FEB. 25.....	1100	49	---	0.5	AUG. 17.....	1130	41	---	21.0
MAR. 31.....	1245	100	---	4.0	SEPT.20.....	1000	54	---	17.0
05540500 DU PAGE RIVER AT SHOREWOOD, IL (LAT 41 31 20 LONG 088 11 35)									
OCT. 06.....	1115	130	13.5	11.5	APR. 27.....	1440	213	29.0	20.0
NOV. 15.....	1410	97	10.5	0.5	JUNE 08.....	1520	88	20.0	22.0
JAN. 14.....	1115	51	-5.0	0.0	AUG. 02.....	1035	52	23.0	23.0
FEB. 18.....	1030	81	3.0	0.0	SEPT.09.....	1020	119	22.0	21.0
MAR. 25.....	0950	142	7.0	9.0					
05542000 MAZON RIVER NEAR COAL CITY, IL (LAT 41 17 10 LONG 088 21 35)									
NOV. 03.....	1000	1.9	7.0	6.0	APR. 06.....	0915	242	4.5	7.5
DEC. 10.....	1235	2.9	0.0	0.0	MAY 11.....	1205	347	23.5	19.5
JAN. 12.....	1000	1.1	-12.0	0.0	SEPT.14.....	1345	665	23.0	19.0
FEB. 28.....	1615	67	3.0	0.5					
05543500 ILLINOIS RIVER AT MARSEILLES, IL (LAT 41 19 40 LONG 088 43 10)									
NOV. 03.....	1115	2720	---	12.5	MAY 25.....	1330	5630	---	28.0
DEC. 07.....	1130	3130	---	4.0	JUNE 22.....	1215	6210	---	24.0
JAN. 04.....	1430	6040	---	3.5	JULY 27.....	1415	3460	---	29.0
FEB. 10.....	1345	5670	---	4.0	AUG. 29.....	1245	4890	---	27.0
MAR. 23.....	1200	10000	---	7.5	SEPT.28.....	1200	11400	---	20.0
APR. 28.....	1030	6840	---	16.0					
05549000 BOONE CREEK NEAR MC HENRY, IL (LAT 42 19 15 LONG 088 18 45)									
OCT. 28.....	1125	8.1	-1.0	4.5	APR. 13.....	1600	11	12.0	15.0
DEC. 09.....	1500	7.0	0.0	0.0	MAY 23.....	1100	9.6	29.0	21.0
FEB. 01.....	1615	6.9	-12.0	0.0	JULY 06.....	1030	7.2	31.0	24.5
MAR. 03.....	1055	9.3	4.0	0.5	AUG. 19.....	1445	3.1	16.0	18.0
05550000 FOX RIVER AT ALGONQUIN, IL (LAT 42 09 59 LONG 088 17 25)									
OCT. 28.....	1410	249	10.0	7.0	APR. 18.....	1230	567	31.0	19.0
NOV. 08.....	1400	309	2.0	3.0	MAY 24.....	1610	370	32.0	26.5
DEC. 10.....	1000	415	0.0	4.0	JUNE 24.....	1250	199	30.0	24.0
JAN. 25.....	1500	215	-2.5	0.0	JULY 05.....	1720	189	34.0	28.5
MAR. 04.....	1325	816	3.5	0.5	AUG. 22.....	1420	219	25.5	22.0
APR. 13.....	1350	531	27.0	17.0					

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
ILLINOIS RIVER BASIN --CONTINUED									
05550500 POPLAR CREEK AT ELGIN, IL (LAT 42 01 35 LONG 088 15 20)									
OCT. 27.....	1130	2.9	---	4.9	APR. 20.....	1115	34	---	17.0
DEC. 01.....	1315	2.8	---	0.5	MAY 17.....	1130	4.7	---	23.0
DEC. 28.....	1100	3.2	---	0.0	JUNE 29.....	1030	2.8	---	21.0
JAN. 25.....	1130	2.4	---	0.5	JULY 20.....	1630	2.7	---	31.0
FEB. 23.....	1400	15	---	0.5	AUG. 15.....	1230	3.2	---	23.0
MAR. 30.....	1230	71	---	12.0	SEPT.19.....	1000	17	---	19.5
05551200 FERSON CREEK NEAR ST. CHARLES, IL (LAT 41 56 00 LONG 088 20 30)									
OCT. 29.....	1000	4.8	4.0	4.0	MAY 25.....	1220	9.9	30.0	25.0
DEC. 03.....	1100	3.0	-10.0	0.0	JULY 05.....	1305	2.8	35.5	31.5
JAN. 24.....	1230	1.7	-1.0	0.5	JULY 08.....	1345	0.68	31.0	27.0
MAR. 04.....	1030	36	3.5	0.5	AUG. 22.....	1130	2.6	28.5	21.5
APR. 11.....	1705	13	30.0	18.0					
05551700 BLACKBERRY CREEK NEAR YORKVILLE, IL (LAT 41 40 18 LONG 088 26 29)									
NOV. 04.....	1100	8.5	4.0	4.0	APR. 11.....	1100	18	28.0	17.0
DEC. 02.....	1045	7.3	-20.0	0.0	MAY 20.....	1315	13	35.0	25.5
JAN. 24.....	1500	3.9	1.0	0.5	JULY 11.....	1425	8.2	28.0	25.0
MAR. 02.....	0945	24	2.0	0.0	AUG. 23.....	1145	10.0	23.0	22.0
05552500 FOX RIVER AT DAYTON, IL (LAT 41 23 14 LONG 088 47 21)									
OCT. 05.....	1600	795	14.0	14.0	MAY 05.....	1500	1210	29.5	19.5
NOV. 12.....	1115	637	-1.0	2.0	JUNE 10.....	1030	402	15.0	19.0
DEC. 23.....	1300	614	-10.0	0.0	JULY 21.....	1045	631	30.0	29.5
FEB. 02.....	1400	129	-3.0	0.0	AUG. 25.....	1610	630	24.0	22.5
MAR. 11.....	1045	1240	16.0	8.0					
05554500 VERMILION RIVER AT PONTIAC, IL (LAT 40 52 40 LONG 088 38 10)									
NOV. 09.....	1045	7.4	14.0	5.0	MAR. 29.....	1140	479	22.0	12.5
DEC. 21.....	1110	10	-5.0	1.5	MAY 09.....	1030	1210	15.0	20.0
JAN. 12.....	1440	2.6	-9.0	1.0	SEPT.09.....	1415	88	27.0	23.0
FEB. 28.....	1055	53	---	1.0					
05555000 VERMILION RIVER AT STREATOR, IL (LAT 41 05 35 LONG 088 50 05)									
MAY 09.....	1530	1730	17.0	20.0					
05555300 VERMILION RIVER NEAR LEONORE, IL (LAT 41 12 30 LONG 088 55 51)									
OCT. 06.....	1300	47	14.5	13.0	MAR. 02.....	1300	106	4.5	0.0
OCT. 21.....	1000	13	4.5	7.5	MAR. 10.....	1600	187	17.0	7.5
NOV. 11.....	1600	12	0.0	2.0	APR. 27.....	1715	85	29.5	19.0
DEC. 22.....	1345	12	-0.5	0.0	JUNE 09.....	1615	121	27.0	21.0
FEB. 02.....	1145	6.7	-4.0	0.0	AUG. 25.....	1235	130	26.0	22.0
05556500 BIG BUREAU CREEK AT PRINCETON, IL (LAT 41 21 55 LONG 089 29 55)									
OCT. 05.....	0930	8.0	8.5	11.0	APR. 27.....	1325	6.6	24.0	18.0
NOV. 11.....	1000	1.8	4.0	2.0	JUNE 09.....	1210	3.8	24.0	19.0
DEC. 22.....	0910	1.5	-5.0	0.0	JULY 20.....	0900	4.2	30.5	26.0
FEB. 01.....	1415	1.9	-10.0	0.0	AUG. 30.....	0840	42	18.0	20.0
MAR. 10.....	1030	16	17.5	8.5					
05560500 FARM CREEK AT FARMDALE, IL (LAT 40 40 00 LONG 089 30 15)									
OCT. 08.....	1125	1.1	7.0	9.0	APR. 28.....	1430	2.2	15.5	14.5
NOV. 09.....	1330	0.92	10.0	5.0	AUG. 24.....	1750	3.1	26.0	24.0
DEC. 23.....	1345	1.1	-4.0	0.0	SEPT.30.....	1530	22	20.0	18.0
MAR. 07.....	1545	4.2	18.0	6.0					
05561000 ACKERMAN CREEK AT FARMDALE, IL (LAT 40 39 43 LONG 089 30 13)									
OCT. 08.....	1225	0.45	9.0	6.0	MAR. 07.....	1700	1.1	16.0	6.0
NOV. 09.....	1220	0.18	10.0	5.0	APR. 28.....	1300	0.58	12.0	14.0
DEC. 22.....	1620	0.19	-1.0	0.0	AUG. 24.....	1620	0.08	26.5	27.0
JAN. 25.....	1305	0.39	-1.0	1.0	SEPT.30.....	1300	7.1	21.0	19.0
05561500 FONDULAC CREEK NEAR EAST PEORIA, IL (LAT 40 40 38 LONG 089 31 52)									
NOV. 09.....	1115	0.10	6.0	2.0	APR. 28.....	1540	0.37	12.5	14.5
MAR. 07.....	1345	1.8	18.0	6.0	SEPT.29.....	1350	0.60	21.0	18.0

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
ILLINOIS RIVER BASIN --CONTINUED									
05562000 FARM CREEK AT EAST PEORIA, IL (LAT 40 40 04 LONG 089 34 40)									
OCT. 08.....	1025	3.3	9.0	11.0	APR. 28.....	1445	2.2	15.0	15.0
NOV. 09.....	1440	2.2	10.0	5.0	JUNE 10.....	1515	3.5	24.0	29.0
DEC. 22.....	1410	1.3	0.0	0.0	JULY 15.....	1200	0.42	28.0	26.0
MAR. 08.....	1115	3.5	19.0	6.0	AUG. 19.....	1215	4.1	25.0	23.0
05564400 MONEY CREEK NEAR TOWANDA, IL (LAT 40 36 19 LONG 088 53 56)									
NOV. 02.....	0920	0.03	9.0	7.5	MAY 10.....	1330	90	19.0	16.5
NOV. 30.....	1100	0.01	-4.0	0.0	MAY 31.....	1420	19	7.0	8.0
MAR. 02.....	1340	1.4	---	2.0	SEPT.08.....	1200	4.7	27.0	21.0
MAR. 31.....	1330	21	7.0	8.0					
05566500 EAST BRANCH PANTHER CREEK AT EL PASO, IL (LAT 40 45 15 LONG 089 00 20)									
NOV. 02.....	1120	0.26	12.0	8.0	MAR. 29.....	1335	11	19.0	17.0
NOV. 30.....	1220	0.10	-4.0	1.0	MAY 09.....	0650	5.7	5.5	9.5
MAR. 02.....	1205	1.1	---	2.0	SEPT.08.....	1400	1.9	27.5	23.0
05567500 MACKINAW RIVER NEAR CONGERVILLE, IL (LAT 40 37 25 LONG 089 14 30)									
NOV. 02.....	1325	12	---	8.5	MAY 10.....	1115	805	19.0	12.0
JAN. 13.....	1240	7.5	0.0	0.0	AUG. 09.....	1300	6630	26.5	22.0
MAR. 02.....	0940	26	4.0	1.5	SEPT.09.....	1145	156	27.5	23.0
05568500 ILLINOIS RIVER AT KINGSTON MINES, IL (LAT 40 33 10 LONG 089 46 40)									
NOV. 18.....	1415	3570	10.0	7.0	JUNE 15.....	1330	6310	27.5	26.5
MAR. 16.....	1300	11200	---	13.0	SEPT.07.....	1000	20500	---	26.0
JUNE 07.....	1300	4880	25.0	24.5					
05568800 INDIAN CREEK NEAR WYOMING, IL (LAT 41 01 06 LONG 089 50 07)									
OCT. 01.....	1145	1.7	20.0	15.0	APR. 27.....	1445	7.8	30.0	20.5
NOV. 16.....	1205	2.1	4.0	1.0	JUNE 09.....	1100	12	17.0	22.5
DEC. 22.....	1050	2.1	-5.0	0.0	AUG. 18.....	1645	7.4	26.0	24.0
MAR. 08.....	1500	8.9	22.0	4.0					
05569500 SPOON RIVER AT LONDON MILLS, IL (LAT 40 42 51 LONG 090 16 00)									
NOV. 17.....	1320	80	5.0	2.0	JUNE 08.....	1930	147	18.5	20.5
DEC. 14.....	1330	31	2.0	0.0	JULY 05.....	1600	119	36.5	25.0
FEB. 01.....	1545	5.8	-5.0	0.0	AUG. 16.....	1100	260	28.0	25.0
MAR. 07.....	1250	141	14.0	4.0	SEPT.26.....	1345	2220	25.5	18.0
APR. 25.....	1430	195	17.0	14.5					
05570000 SPOON RIVER AT SEVILLE, IL (LAT 40 29 10 LONG 090 20 34)									
NOV. 02.....	1540	167	19.0	9.5	APR. 13.....	1140	455	23.5	18.0
JAN. 20.....	1555	53	-5.0	0.0	AUG. 23.....	1420	248	23.0	24.0
MAR. 08.....	1000	290	16.0	4.0	SEPT.21.....	1650	3400	21.0	18.0
05570350 BIG CREEK AT ST. DAVID, IL (LAT 40 29 51 LONG 090 03 12)									
NOV. 03.....	1720	5.3	5.5	6.9	MAY 11.....	1625	24	---	18.1
DEC. 02.....	1500	4.0	---	0.4	JUNE 03.....	1250	7.9	23.5	20.5
DEC. 09.....	1115	4.6	-5.0	0.0	JUNE 15.....	1550	6.8	---	22.7
JAN. 06.....	1200	3.5	---	0.0	JULY 13.....	1020	5.4	---	26.9
JAN. 19.....	1730	3.5	5.0	0.0	AUG. 11.....	1735	61	35.0	25.0
FEB. 03.....	1300	2.6	---	0.0	SEPT.08.....	1130	7.5	---	23.1
MAR. 09.....	1245	9.3	18.0	8.4	SEPT.27.....	1255	30	13.0	14.5
APR. 14.....	0945	12	24.5	19.1					
05570360 EVELYN BRANCH NEAR BRYANT, IL (LAT 40 29 15 LONG 090 06 08)									
NOV. 03.....	1200	1.7	10.0	8.7	JUNE 02.....	1445	0.90	26.0	26.0
DEC. 02.....	1100	1.2	---	2.3	JUNE 15.....	1400	0.92	---	23.8
JAN. 06.....	1530	0.40	---	2.0	JULY 13.....	1200	0.31	---	29.7
FEB. 15.....	1430	0.80	---	1.9	AUG. 12.....	1105	20	---	24.4
MAR. 09.....	0940	1.6	---	6.0	SEPT.08.....	1240	2.2	---	26.4
APR. 13.....	1500	2.1	26.0	16.7	SEPT.22.....	1715	8.5	22.0	21.0
MAY 11.....	1350	5.2	---	20.2					

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
ILLINOIS RIVER BASIN --CONTINUED									
05570370 BIG CREEK NEAR BRYANT, IL (LAT 40 27 32 LONG 090 08 00)									
OCT. 03.....	1400	17	11.0	7.0	MAY 11.....	1350	35	---	16.6
NOV. 03.....	1345	9.1	---	7.1	JUNE 02.....	1800	9.7	24.5	22.0
DEC. 02.....	1315	8.1	---	0.7	JUNE 15.....	1200	9.2	---	19.7
DEC. 09.....	1240	11	-1.0	0.0	JUNE 30.....	1310	6.6	---	20.0
JAN. 06.....	1100	5.0	---	0.0	JULY 13.....	1410	7.6	---	28.2
JAN. 20.....	1230	4.0	-5.0	0.0	AUG. 11.....	1500	95	---	23.5
FEB. 03.....	1150	3.0	---	0.0	SEPT.08.....	1350	11	---	23.1
MAR. 08.....	1545	15	25.0	20.0	SEPT.22.....	1400	61	20.5	19.0
APR. 13.....	1600	14	25.0	20.0					
05570380 SLUG RUN NEAR BRYANT,IL (LAT 40 28 24 LONG 090 08 37)									
NOV. 03.....	1545	0.68	10.5	8.0	MAY 11.....	1130	4.9	---	19.2
DEC. 02.....	1200	0.50	---	0.1	JUNE 02.....	1610	0.64	24.0	24.0
DEC. 08.....	1630	0.74	-7.0	0.0	JUNE 15.....	1130	0.45	---	19.9
JAN. 06.....	0900	0.37	---	0.1	JULY 11.....	1300	0.24	---	27.0
JAN. 20.....	1045	0.37	-5.0	0.0	JULY 13.....	1500	0.24	---	30.3
FEB. 03.....	1100	0.22	---	0.0	AUG. 11.....	1300	13	26.5	24.1
MAR. 08.....	1330	1.0	---	11.1	SEPT.08.....	1430	0.64	---	26.9
APR. 13.....	1745	0.82	24.5	20.1	SEPT.22.....	1225	5.2	20.0	19.5
05571000 SANGAMON RIVER AT MAHOMET, IL (LAT 40 11 30 LONG 088 24 00)									
OCT. 12.....	1600	5.8	17.0	15.0	MAY 09.....	1120	1540	10.0	16.0
DEC. 07.....	1320	3.2	-2.0	1.0	JUNE 21.....	0940	31	22.0	21.0
JAN. 05.....	1410	1.6	-1.0	0.0	JULY 26.....	1030	192	21.0	20.0
JAN. 27.....	1245	0.63	---	0.0	AUG. 08.....	1700	4680	22.5	22.0
FEB. 22.....	1200	7.4	12.0	7.0	SEPT.06.....	1455	132	23.0	24.0
MAR. 23.....	1040	113	10.0	8.0					
05572000 SANGAMON RIVER AT MONTICELLO, IL (LAT 40 01 51 LONG 088 35 20)									
OCT. 28.....	1130	6.3	5.0	7.0	MAY 09.....	1530	2770	22.0	18.0
NOV. 29.....	1140	7.6	-4.0	3.0	MAY 31.....	1130	156	22.0	25.0
DEC. 28.....	1555	3.9	-7.0	0.0	JUNE 28.....	1245	49	25.0	23.0
JAN. 24.....	1600	4.7	-3.0	0.0	JULY 27.....	1015	131	21.0	21.0
JAN. 27.....	1245	3.6	---	0.0	AUG. 09.....	1440	4060	26.0	21.5
FEB. 25.....	1245	94	8.0	2.5	AUG. 10.....	1730	5940	29.0	21.0
MAR. 30.....	1050	1150	17.0	16.0	AUG. 30.....	1045	468	24.0	24.0
APR. 27.....	1115	124	18.0	16.0	SEPT.29.....	1100	447	20.0	16.0
05572450 FRIENDS CREEK AT ARGENTA, IL (LAT 39 59 21 LONG 088 48 18)									
OCT. 04.....	1140	0.06	27.0	16.0	JUNE 06.....	1336	29	20.0	22.0
NOV. 19.....	1555	0.10	8.5	8.0	JULY 18.....	1545	206	37.5	23.5
JAN. 07.....	1215	0.06	-5.0	0.0	AUG. 08.....	1645	1510	22.5	21.5
MAR. 04.....	1520	9.7	---	0.5	AUG. 09.....	1150	1070	22.0	20.5
MAY 02.....	1815	62	22.0	17.0	AUG. 25.....	1530	77	27.0	21.0
MAY 06.....	1730	1180	26.0	18.0					
05572500 SANGAMON RIVER NEAR OAKLEY, IL (LAT 39 55 09 LONG 088 48 09)									
MAY 09.....	1455	3550	---	19.5	AUG. 25.....	1410	583	26.0	20.0
JULY 18.....	1750	752	38.0	24.0					
05574500 FLAT BRANCH NEAR TAYLORVILLE, IL (LAT 39 33 14 LONG 089 15 12)									
NOV. 03.....	1205	1.6	9.5	6.5	MAY 06.....	1330	2220	27.0	18.0
JAN. 04.....	1420	0.43	-1.0	0.0	JUNE 08.....	1220	18	15.5	19.0
FEB. 24.....	1400	132	7.5	0.5	JULY 19.....	1230	4.0	36.0	29.5
MAY 02.....	1420	62	23.5	18.0	AUG. 22.....	1245	151	24.5	22.0
05575800 HORSE CREEK AT PAWNEE, IL (LAT 39 34 56 LONG 089 34 20)									
FEB. 15.....	1547	13	0.0	0.0	JUNE 08.....	1635	1.5	18.0	19.0
MAY 03.....	1525	2.2	20.0	20.5	JULY 19.....	1715	0.67	33.0	29.5
MAY 05.....	1745	988	28.5	20.5	AUG. 22.....	1400	0.01	27.0	23.0
MAY 06.....	1410	3100	---	18.0					
05575830 BRUSH CREEK NEAR DIVERNON, IL (LAT 39 35 50 LONG 089 37 48)									
NOV. 03.....	1000	0.33	8.0	7.0	MAY 06.....	1200	2340	21.0	18.0
FEB. 15.....	1307	6.9	-5.0	0.0	JUNE 08.....	1940	3.2	18.0	19.5
MAY 03.....	1755	2.9	20.0	21.0	JULY 19.....	1535	0.85	35.0	30.5
MAY 05.....	1415	4.6	30.5	17.0	AUG. 22.....	1620	0.07	27.5	24.5

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
ILLINOIS RIVER BASIN --CONTINUED									
05576000 SOUTH FORK SANGAMON RIVER NEAR ROCHESTER, IL (LAT 39 44 32 LONG 089 34 02)									
NOV. 04.....	1245	0.80	4.0	6.0	MAY 04.....	1405	73	27.0	19.0
DEC. 27.....	1625	0.48	2.5	1.0	JULY 20.....	1100	29	33.5	28.0
FEB. 16.....	1415	20	4.0	0.0	AUG. 30.....	1200	61	27.0	23.5
APR. 06.....	1320	104	7.5	9.5					
05577500 SPRING CREEK AT SPRINGFIELD, IL (LAT 39 48 57 LONG 089 41 57)									
NOV. 18.....	1140	0.01	---	3.0	JULY 20.....	1650	7.2	28.5	27.5
FEB. 17.....	1500	7.1	3.0	0.0	AUG. 24.....	1230	1.5	24.5	20.5
MAY 04.....	1735	13	23.5	20.5					
05578000 SANGAMON RIVER AT PETERSBURG, IL (LAT 40 00 37 LONG 089 50 42)									
MAY 11.....	1345	17700	21.5	17.5					
05578500 SALT CREEK NEAR ROWELL, IL (LAT 40 06 54 LONG 089 02 57)									
OCT. 04.....	1455	6.7	26.0	18.0	JUNE 06.....	1725	65	20.0	23.0
NOV. 19.....	1100	8.0	9.5	3.5	AUG. 04.....	1745	19	24.5	23.0
JAN. 06.....	1000	4.8	-4.0	0.0	AUG. 26.....	1015	202	29.5	22.0
MAR. 25.....	1520	131	19.0	11.0					
05579500 LAKE FORK NEAR CORNLAND, IL (LAT 39 57 00 LONG 089 23 10)									
NOV. 04.....	1705	4.9	---	6.5	JUNE 10.....	1715	61	33.0	21.0
DEC. 28.....	1645	4.0	-7.5	0.0	JULY 20.....	1310	140	34.0	27.5
MAR. 24.....	1420	60	12.0	11.0	AUG. 23.....	1245	438	21.5	18.5
05580000 KICKAPOO CREEK AT WAYNESVILLE, IL (LAT 40 15 20 LONG 089 07 40)									
NOV. 05.....	1055	6.7	3.5	5.0	MAY 06.....	1240	4950	19.5	17.0
DEC. 28.....	1330	4.3	-6.0	0.5	JULY 22.....	1540	24	28.0	27.5
FEB. 18.....	1405	29	1.5	0.0	AUG. 26.....	1500	27	31.0	21.5
MAR. 25.....	1300	179	23.0	9.0	SEPT.14.....	1255	1860	21.0	18.0
05580730 SUGAR CREEK AT TOWANDA AVE AT NORMAL, IL (LAT 40 30 12 LONG 088 57 26)									
MAR. 24.....	1045	4.0	5.5	9.0					
05580740 COUNTRY CLUB BR SUGAR CREEK AT BLOOMINGTON, IL (LAT 40 29 35 LONG 088 58 52)									
MAR. 24.....	1115	0.45	6.5	11.5					
05580770 NORTH BR SUGAR CREEK AT TOWANDA AVE AT NORMAL IL (LAT 40 31 00 LONG 088 57 38)									
MAR. 24.....	1015	1.1	5.5	6.0					
05580805 NORTH BRANCH SUGAR CREEK TRIB AT NORMAL, IL (LAT 40 30 06 LONG 088 59 25)									
MAR. 24.....	0945	0.14	5.0	5.5					
05580880 WEST BRANCH SUGAR CREEK AT NORMAL, IL (LAT 40 30 09 LONG 089 00 16)									
MAR. 24.....	1255	1.9	10.5	13.0					
05580910 SUGAR CREEK AT MARKET STREET AT BLOOMINGTON, IL (LAT 40 29 02 LONG 089 01 10)									
MAR. 24.....	1400	6.0	10.0	13.0					
05580920 SKUNK CREEK AT BLOOMINGTON, IL (LAT 40 29 02 LONG 089 01 18)									
MAR. 24.....	1335	3.6	10.5	9.0					
05580948 GOOSE CREEK ABOVE SEWAGE PLANT AT BLOOMINGTON,IL (LAT 40 28 14 LONG 089 01 25)									
MAR. 24.....	1455	1.6	11.0	13.0					
05582000 SALT CREEK NEAR GREENVIEW, IL (LAT 40 08 01 LONG 089 44 08)									
JAN. 06.....	1130	104	-3.0	0.5	JULY 21.....	1620	489	32.0	28.0
FEB. 18.....	1015	338	0.0	3.0	AUG. 24.....	1545	1082	28.0	22.0
MAY 11.....	1830	5290	20.0	17.5					

ILLINOIS RIVER BASIN --CONTINUED

05583000 SANGAMON RIVER NEAR OAKFORD, IL (LAT 40 07 25 LONG 089 59 05)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 08.....	1430	484	---	15.0	MAY 10.....	1645	27400	18.0	18.0
NOV. 22.....	1630	287	0.0	3.5	MAY 12.....	1200	21500	---	19.1
DEC. 30.....	1410	297	11.0	0.0	JUNE 16.....	1130	1470	---	23.3
JAN. 05.....	1140	230	---	0.5	JULY 21.....	1015	1810	32.5	28.5
FEB. 25.....	1715	1750	---	3.5	AUG. 23.....	0830	4360	---	21.5
MAR. 30.....	1130	5050	---	13.7	SEPT.20.....	1640	5090	---	20.0
APR. 27.....	1130	2070	---	14.9					

05584400 DROWNING FORK AT BUSHNELL, IL (LAT 40 33 45 LONG 090 31 23)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
NOV. 02.....	1340	0.57	21.0	12.5	JUNE 01.....	1655	74	27.0	22.5
DEC. 08.....	1530	0.67	8.0	0.0	JUNE 29.....	1045	2.5	27.0	21.0
JAN. 19.....	1410	0.12	---	0.0	AUG. 10.....	1500	20	33.0	25.0
MAR. 08.....	0845	1.4	0.0	3.0	SEPT.27.....	1130	51	15.5	17.0
MAY 06.....	1230	146	20.5	16.0					

05585500 ILLINOIS RIVER AT MEREDOSIA, IL (LAT 39 49 24 LONG 090 34 05)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
DEC. 01.....	0800	6830	-4.0	3.0	JULY 20.....	1130	9760	31.0	30.0
MAR. 15.....	1430	18000	13.0	11.5	SEPT.21.....	1010	32300	16.0	20.0
APR. 26.....	1110	12900	18.0	16.5					

05586100 ILLINOIS RIVER AT VALLEY CITY, IL (LAT 39 42 10 LONG 090 38 40)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
*OCT. 21.....	1200	5440	---	11.0	*MAY 11.....	1100	40500	---	18.5
*NOV. 29.....	1500	6320	---	3.0	*JUNE 14.....	1000	9000	---	22.0
*DEC. 15.....	1400	5690	---	2.0	*JULY 19.....	1100	9570	---	30.0
*FEB. 16.....	1030	10500	---	0.0	*AUG. 10.....	1030	21600	---	23.5
*MAR. 08.....	1030	14700	---	6.0	SEPT.19.....	1600	---	---	20.5
*APR. 13.....	1030	15400	---	16.0	*SEPT.20.....	1100	27000	---	19.5
*APR. 25.....	1330	13600	---	17.5					

05586800 OTTER CREEK NEAR PALMYRA, IL (LAT 39 22 42 LONG 089 56 50)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
FEB. 14.....	1620	20	-1.0	1.0	MAY 05.....	1630	617	30.0	19.5
MAR. 18.....	1515	16	9.0	8.0	MAY 09.....	1800	117	19.0	19.0
MAR. 29.....	1100	94	15.0	12.0	MAY 18.....	1650	4.5	29.0	23.0
APR. 18.....	1500	2.1	27.0	21.0	JUNE 28.....	1610	135	26.0	24.0
MAY 03.....	1410	3.1	25.0	19.5					

05587000 MACOUPIN CREEK NEAR KANE, IL (LAT 39 14 03 LONG 090 23 40)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 28.....	1340	15	8.5	9.5	MAR. 29.....	1310	6220	23.0	18.0
NOV. 16.....	1240	5.1	9.0	4.5	APR. 20.....	1105	100	22.0	19.5
DEC. 14.....	1305	7.4	5.0	0.5	MAY 20.....	1040	92	28.0	23.0
JAN. 05.....	1350	4.3	-1.0	0.5	JUNE 30.....	1205	684	28.0	24.0
FEB. 03.....	1535	5.3	3.0	0.0	JULY 18.....	1245	33	34.0	34.5
FEB. 15.....	1240	400	2.0	0.5	AUG. 17.....	1310	29	25.0	29.0
MAR. 14.....	1515	508	28.0	17.0	SEPT.23.....	1145	23	29.0	22.0
MAR. 16.....	1500	1.9	16.0	14.0					

CAHOKIA CREEK BASIN

05587900 CAHOKIA CREEK AT EDWARDSVILLE, IL (LAT 38 49 28 LONG 089 58 29)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 05.....	1100	0.29	20.0	19.0	MAR. 23.....	1110	50	12.0	8.0
NOV. 23.....	1320	1.5	2.5	4.0	MAR. 29.....	1015	5550	20.0	12.0
JAN. 05.....	1635	1.1	-2.0	1.0	MAY 31.....	1305	12	30.0	25.5
JAN. 20.....	1255	1.2	6.5	0.0	JULY 01.....	1230	71	28.0	23.5
FEB. 08.....	1300	1.4	-1.0	0.0	AUG. 18.....	1400	2.9	27.0	25.0

05588000 INDIAN CREEK AT WANDA, IL (LAT 38 50 30 LONG 090 01 59)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
FEB. 08.....	1320	0.05	-1.0	0.0	APR. 20.....	1420	4.3	26.0	22.5
FEB. 14.....	1350	35	4.0	1.0	MAY 31.....	1350	0.18	30.0	25.5
MAR. 16.....	1200	9.7	13.0	10.0	JULY 01.....	1350	4.8	26.0	25.0
MAR. 23.....	1215	5.8	12.0	9.0	AUG. 18.....	1230	0.06	24.0	24.5
MAR. 29.....	0805	143	16.0	12.0	AUG. 23.....	1645	1140	24.0	20.0

* Mean daily discharge.

CAHOKIA CANAL BASIN

05589500 CANTEEN CREEK AT CASEYVILLE, IL (LAT 38 38 35 LONG 090 01 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
NOV. 23.....	0955	0.22	1.0	1.0	MAR. 28.....	1150	1270	20.5	14.0
JAN. 20.....	1450	0.32	-4.0	0.0	MAY 31.....	1535	0.60	29.0	26.0
FEB. 08.....	1450	0.65	1.5	0.0	JULY 01.....	1520	0.86	27.0	26.0
MAR. 23.....	0930	4.5	10.5	6.0	AUG. 18.....	1105	0.12	21.0	21.0

KASKASKIA RIVER BASIN

05590000 KASKASKIA DITCH AT BONDVILLE, IL (LAT 40 06 47 LONG 088 20 55)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 12.....	1350	0.24	17.0	21.0	MAY 02.....	1530	5.8	21.0	20.0
NOV. 30.....	1510	0.12	4.0	2.0	JUNE 20.....	1510	2.0	24.0	26.0
JAN. 05.....	1155	0.07	0.0	1.0	JULY 25.....	1055	1.00	24.0	25.0
FEB. 22.....	1500	2.2	2.0	2.0	AUG. 30.....	1415	8.3	24.0	24.0
MAR. 24.....	1000	18	2.0	7.0	SEPT.14.....	0900	35	16.0	17.0

05590400 KASKASKIA RIVER NEAR PESOTUM, IL (LAT 39 52 44 LONG 088 22 35)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 12.....	1050	22	15.0	15.0	MAY 03.....	1050	83	23.0	18.0
DEC. 02.....	1525	23	-3.0	0.0	JUNE 20.....	1000	32	25.0	23.0
JAN. 04.....	1120	22	1.0	0.0	JULY 25.....	1545	25	30.0	28.0
MAR. 04.....	1150	175	6.0	1.0	AUG. 29.....	1120	186	22.0	20.0
MAR. 25.....	0850	196	---	5.0					

05590800 LAKE FORK AT ATWOOD, IL (LAT 39 48 30 LONG 088 28 34)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 19.....	1040	0.20	8.0	9.0	JUNE 24.....	1410	17	26.0	21.0
NOV. 30.....	1110	1.4	-2.0	3.0	AUG. 01.....	1430	2.3	22.0	25.0
JAN. 06.....	1300	0.19	2.0	0.0	SEPT.02.....	1330	38	24.0	26.0
MAR. 04.....	1450	108	7.0	2.0	SEPT.09.....	1125	12	23.0	24.0
MAR. 29.....	1325	982	16.0	15.0	SEPT.09.....	1200	14	25.0	25.0
MAY 03.....	1450	84	22.0	18.0					

05591200 KASKASKIA RIVER AT COOKS MILLS, IL (LAT 39 34 59 LONG 088 24 50)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 14.....	1500	14	---	15.0	APR. 12.....	1120	253	29.0	17.0
OCT. 15.....	1320	14	12.0	16.0	MAY 04.....	1040	181	20.0	18.0
NOV. 24.....	1220	22	---	2.0	MAY 17.....	1500	345	34.5	25.0
DEC. 06.....	1150	13	2.0	1.0	JUNE 22.....	1100	46	---	21.7
DEC. 15.....	0900	---	---	0.0	JUNE 24.....	1210	63	24.0	23.0
JAN. 11.....	1515	15	-5.0	0.0	JULY 25.....	1140	34	---	27.1
FEB. 02.....	1030	12	---	0.0	AUG. 01.....	1130	19	23.0	20.0
FEB. 25.....	0900	150	---	0.0	AUG. 25.....	0930	90	---	20.7
MAR. 01.....	1220	110	1.0	0.0	SEPT.02.....	1535	136	26.0	25.0
MAR. 28.....	1520	966	---	13.0	SEPT.21.....	0900	282	---	19.8
MAR. 29.....	1115	1110	16.0	15.0					

05591500 ASA CREEK AT SULLIVAN, IL (LAT 39 37 11 LONG 088 36 17)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 15.....	1130	0.02	10.0	13.0	MAR. 28.....	1235	76	---	11.0
DEC. 07.....	1040	0.01	-2.0	1.0	MAY 04.....	1210	7.3	21.0	18.0
MAR. 24.....	1430	6.4	8.0	11.0	JUNE 24.....	1020	0.44	23.0	20.0
MAR. 28.....	1230	73	21.0	11.0	SEPT.02.....	1020	0.51	24.0	26.0

05592000 KASKASKIA RIVER AT SHELBYVILLE, IL (LAT 39 24 25 LONG 088 46 50)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 04.....	1210	6.9	17.5	19.0	APR. 11.....	1600	896	31.0	11.0
NOV. 19.....	1045	2.8	10.5	5.0	MAY 25.....	1340	883	31.5	20.0
DEC. 16.....	1215	2.7	2.5	1.5	JUNE 23.....	1200	53	22.0	16.5
JAN. 12.....	1200	3.2	11.0	0.0	AUG. 09.....	1310	148	27.0	20.0
FEB. 07.....	1310	10	-2.5	0.5					

05592100 KASKASKIA RIVER NEAR COWDEN, IL (LAT 34 13 50 LONG 088 50 33)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 06.....	1305	21	16.0	15.5	JUNE 01.....	1220	593	25.0	21.5
OCT. 28.....	1450	19	14.0	6.5	JUNE 14.....	1510	99	23.0	26.5
NOV. 19.....	1300	7.3	11.5	5.0	JULY 13.....	1230	42	33.5	29.0
DEC. 16.....	1330	6.9	8.0	1.5	AUG. 03.....	1255	42	25.0	24.5
JAN. 27.....	1100	9.8	-6.0	0.5	AUG. 10.....	1515	168	29.0	22.5
MAR. 22.....	1310	1110	5.5	10.0					

05592300 WOLF CREEK NEAR BEECHER CITY, IL (LAT 39 09 30 LONG 088 48 20)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
DEC. 16.....	1445	0.01	11.5	2.0	JUNE 14.....	1305	1.4	26.0	21.5
MAR. 22.....	1510	16	11.0	11.0	AUG. 04.....	1300	0.28	30.0	24.0
MAR. 29.....	1500	79	25.0	15.0	AUG. 09.....	1525	20	28.5	22.0

KASKASKIA RIVER BASIN --CONTINUED

05592500 KASKASKIA RIVER AT VANDALIA, IL (LAT 38 57 35 LONG 089 05 20)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 06.....	1545	57	15.0	16.0	MAR. 31.....	1250	7070	12.0	10.0
NOV. 17.....	1540	34	12.0	5.0	MAY 09.....	1525	1000	14.5	18.5
DEC. 13.....	1215	26	-5.0	1.5	JUNE 20.....	1320	280	31.0	27.5
JAN. 19.....	1720	19	-10.0	0.0	AUG. 02.....	1125	324	30.0	23.0
MAR. 23.....	1135	1400	11.5	10.5					

05592800 HURRICANE CREEK NEAR MULBERRY GROVE, IL (LAT 38 55 21 LONG 089 14 14)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 05.....	1600	1.9	16.0	18.5	MAR. 23.....	1325	56	14.0	10.0
OCT. 21.....	1300	4.0	16.0	8.5	MAY 09.....	1700	35	17.0	18.0
NOV. 18.....	1200	6.5	12.5	5.0	JUNE 20.....	1450	4.3	31.5	27.0
DEC. 13.....	1355	5.9	-2.0	1.0	AUG. 02.....	1350	5.2	30.5	22.5
JAN. 12.....	1550	1.9	-10.0	0.5					

05593000 KASKASKIA RIVER AT CARLYLE, IL (LAT 38 36 42 LONG 089 21 22)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 04.....	1315	41	28.5	19.5	FEB. 17.....	1315	45	6.0	4.5
OCT. 22.....	1440	46	17.0	11.5	APR. 04.....	1405	6890	20.0	15.0
NOV. 05.....	1110	45	6.0	7.5	MAY 24.....	1245	205	28.0	24.0
NOV. 18.....	1145	43	15.0	5.5	JUNE 23.....	1500	254	24.5	25.0
JAN. 07.....	1400	46	-7.5	2.0	AUG. 05.....	1155	46	29.0	26.5
JAN. 19.....	1530	47	-6.0	2.0	SEPT.09.....	1210	46	27.5	26.5

05593520 CROOKED CREEK NEAR HOFFMAN, IL (LAT 38 30 25 LONG 089 16 24)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 04.....	1055	5.0	23.5	17.0	JUNE 28.....	1025	26	30.5	24.5
NOV. 18.....	0920	3.6	8.5	3.5	JUNE 28.....	1335	24	28.5	26.0
FEB. 18.....	1640	29	9.0	1.0	AUG. 05.....	0930	8.1	28.5	24.5
MAR. 29.....	1530	6340	26.0	16.0	SEPT.13.....	1600	7.2	22.0	21.0
MAY 24.....	0945	7.2	24.5	22.5					

05593575 LITTLE CROOKED CREEK NEAR NEW MINDEN, IL (LAT 38 26 30 LONG 089 25 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 07.....	1015	27	13.0	10.0	APR. 06.....	1200	11	12.0	10.0
NOV. 18.....	1425	0.55	20.0	5.5	MAY 24.....	1810	0.58	25.5	24.0
JAN. 13.....	1215	0.20	1.0	0.5	JUNE 28.....	1420	20	26.0	24.5
FEB. 15.....	1235	23	-2.0	0.5	AUG. 05.....	1515	0.47	30.5	26.0
MAR. 28.....	1745	7080	20.0	16.0	SEPT.13.....	1000	0.47	23.0	20.5

05593600 BLUE GRASS CREEK NEAR RAYMOND, IL (LAT 39 16 07 LONG 089 32 02)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
NOV. 18.....	1510	0.01	18.5	9.0	MAY 05.....	1350	62	26.0	18.5
FEB. 15.....	1350	4.1	-2.0	1.0	MAY 06.....	1025	395	17.0	18.5
MAR. 23.....	1700	1.1	13.5	10.0	JUNE 21.....	1245	0.42	25.5	21.0
MAR. 28.....	1355	258	12.5	11.0	AUG. 02.....	1600	0.07	30.0	26.5

05593900 EAST FORK SHOAL CREEK NEAR COFFEEN, IL (LAT 39 08 56 LONG 089 21 08)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
NOV. 18.....	1345	0.11	17.5	5.0	APR. 19.....	1310	2.2	18.5	10.0
DEC. 13.....	1450	0.10	0.0	1.0	MAY 06.....	1430	456	20.0	18.5
JAN. 26.....	1340	2.6	2.5	0.5	JUNE 21.....	1500	0.11	28.5	22.0
MAR. 23.....	1530	13	14.5	10.0	AUG. 03.....	0930	0.52	29.5	21.5
MAR. 28.....	1710	1280	13.5	11.0					

05594000 SHOAL CREEK NEAR BREESE, IL (LAT 38 36 35 LONG 089 29 40)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 07.....	1550	12	13.5	16.0	JULY 19.....	1555	20	34.5	31.5
OCT. 22.....	1530	5.4	17.5	10.5	JULY 27.....	1300	288	23.5	24.5
NOV. 19.....	1040	13	13.0	5.5	AUG. 12.....	1115	336	23.5	23.5
JAN. 12.....	1330	6.6	-10.0	0.5	AUG. 18.....	1255	32	23.0	25.5
APR. 20.....	1620	72	23.5	21.0	AUG. 24.....	1115	2120	26.0	21.0
MAY 20.....	1635	69	30.0	24.5	SEPT.09.....	1010	17	27.0	25.0
JUNE 23.....	1125	23	27.5	24.5	SEPT.26.....	1245	27	25.0	21.0

05594090 SUGAR CREEK AT ALBERS, IL (LAT 38 32 29 LONG 089 37 36)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 07.....	1235	26	13.0	13.5	MAY 24.....	1605	1.4	27.5	24.5
NOV. 19.....	1250	1.1	13.0	8.5	JUNE 28.....	1630	8.8	26.0	25.5
FEB. 11.....	1620	21	9.5	1.0	AUG. 12.....	1320	44	23.5	23.5
MAR. 30.....	1530	201	21.0	16.0	AUG. 24.....	1640	831	23.0	21.0
APR. 06.....	1500	15	9.0	11.5	SEPT.13.....	1415	5.5	24.5	21.0

KASKASKIA RIVER BASIN --CONTINUED

05594100 KASKASKIA RIVER NEAR VENEDY STATION, IL (LAT 38 27 02 LONG 089 37 39)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 19.....	1115	70	8.0	10.5	APR. 04.....	1130	15200	10.5	13.5
NOV. 17.....	1400	80	18.0	5.0	APR. 11.....	1130	3540	---	15.5
DEC. 14.....	1000	91	6.0	0.0	MAY 03.....	1130	328	18.0	17.5
JAN. 25.....	1000	70	-2.0	0.5	JUNE 02.....	1000	850	29.0	23.5
FEB. 14.....	1100	2040	---	0.5	JULY 12.....	1200	741	35.0	25.5
MAR. 16.....	1205	8030	12.0	11.0	AUG. 17.....	1045	823	23.0	26.0
MAR. 21.....	1100	2230	16.5	10.0	SEPT.13.....	1100	131	24.0	22.0

05594330 MUD CREEK NEAR MARISSA, IL (LAT 38 15 46 LONG 089 43 56)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 06.....	1100	1.1	12.0	14.5	MAY 20.....	1155	0.10	29.0	22.5
FEB. 10.....	1410	0.09	11.5	1.5	JUNE 27.....	1505	203	33.5	23.5
MAR. 04.....	1150	298	9.0	7.0	AUG. 04.....	1700	1.1	29.0	24.5
APR. 07.....	1100	13	24.0	11.5	SEPT.12.....	1305	1.2	25.0	20.0

05594450 SILVER CREEK NEAR TROY, IL (LAT 38 43 00 LONG 089 49 45)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 05.....	0840	0.09	19.0	17.5	MAR. 23.....	1535	26	13.0	10.5
NOV. 19.....	1545	0.54	11.5	6.5	MAR. 29.....	1700	4260	21.0	16.0
JAN. 06.....	1545	0.48	-1.5	1.0	APR. 18.....	1050	8.9	25.0	20.0
JAN. 20.....	1025	0.24	-10.0	0.0	MAY 18.....	1110	1.5	28.0	21.0
FEB. 08.....	1055	0.34	-8.0	0.0	JUNE 30.....	1500	24	29.0	25.0
FEB. 14.....	1135	425	2.0	0.0	AUG. 18.....	1605	1.9	24.0	23.0
MAR. 15.....	1600	292	14.0	16.0	AUG. 24.....	1440	762	23.0	21.0

05594800 SILVER CREEK NEAR FREEBURG, IL (LAT 38 24 22 LONG 089 52 26)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 06.....	1700	101	14.0	15.5	MAY 20.....	1730	10	27.0	25.0
OCT. 27.....	1440	133	10.5	9.0	JUNE 01.....	1325	39	26.5	24.5
NOV. 22.....	1450	4.9	5.0	5.5	JUNE 27.....	1445	528	30.0	24.0
JAN. 04.....	1700	5.3	0.5	0.5	AUG. 12.....	1630	598	25.0	23.5
FEB. 11.....	1325	31	15.5	1.0	AUG. 25.....	1250	976	27.0	21.5
MAR. 30.....	1735	3240	28.0	16.0	SEPT.12.....	1705	14	19.5	20.5
APR. 07.....	1645	124	22.0	13.0					

05595200 RICHLAND CREEK NEAR HECKER, IL (LAT 38 19 26 LONG 089 58 15)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 06.....	1425	62	13.5	14.5	JUNE 27.....	0945	31	21.5	23.5
NOV. 22.....	1155	7.5	3.5	3.5	JULY 21.....	0955	9.4	28.5	27.0
JAN. 04.....	1500	2.3	1.5	0.5	JULY 26.....	1150	128	26.5	23.0
MAR. 04.....	1515	83	10.5	9.0	AUG. 04.....	1830	6.8	28.5	27.0
APR. 07.....	1410	33	24.0	16.0	AUG. 18.....	1535	11	24.0	24.5
APR. 20.....	1300	21	25.0	21.5	SEPT.01.....	1525	14	32.5	28.0
MAY 20.....	1530	9.9	31.0	25.0	SEPT.12.....	1515	11	19.0	21.0
JUNE 01.....	1905	7.5	23.0	24.0					

BIG MUDDY RIVER BASIN

05595800 SEVENMILE CREEK NEAR MT. VERNON, IL (LAT 38 19 10 LONG 088 50 50)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
NOV. 10.....	1100	0.05	11.0	6.0	MAR. 28.....	1330	1780	20.0	15.0
DEC. 22.....	1610	0.16	1.0	1.5	MAY 10.....	1325	2.8	16.0	15.5
FEB. 11.....	1030	6.3	9.0	1.0	JUNE 28.....	1145	0.86	33.0	25.0
MAR. 24.....	1320	4.1	14.0	11.0	AUG. 10.....	1010	148	23.0	22.0

05597000 BIG MUDDY RIVER AT PLUMFIELD, IL (LAT 37 54 05 LONG 089 00 50)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
OCT. 01.....	1215	47	28.0	19.0	MAR. 17.....	1200	625	13.5	12.5
NOV. 11.....	1210	37	5.0	6.0	APR. 28.....	1245	690	25.5	15.5
DEC. 23.....	1130	40	1.0	0.5	JUNE 20.....	1325	118	32.5	20.0
JAN. 26.....	1500	54	6.0	0.5	AUG. 03.....	1200	69	28.0	26.0
FEB. 09.....	1525	42	11.0	0.5					

05597040 POND CREEK AT WEST FRANKFORT, IL (LAT 37 53 06 LONG 088 55 54)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
MAR. 30.....	1100	45	28.0	16.0	AUG. 30.....	1115	71	31.0	23.0
JULY 01.....	1000	5.2	24.5	22.5					

05597300 LITTLE MUDDY RIVER NEAR DE SOTO, IL (LAT 37 49 53 LONG 089 11 12)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
APR. 06.....	1445	462	12.0	14.0	AUG. 26.....	1415	14	33.0	26.0
JULY 05.....	1430	24	---	29.5					

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)
BIG MUDDY RIVER BASIN --CONTINUED									
05597500 CRAB ORCHARD CREEK NEAR MARION, IL (LAT 37 43 52 LONG 088 53 21)									
OCT. 05.....	1120	0.02	25.0	20.5	MAR. 15.....	1520	16	26.0	15.0
NOV. 11.....	1430	0.66	5.0	5.5	APR. 22.....	1015	7.0	18.5	18.5
DEC. 23.....	1400	0.61	0.5	2.0	JUNE 15.....	1435	0.23	34.5	23.5
FEB. 03.....	1000	0.54	7.0	0.5	JUNE 30.....	1500	0.63	33.5	24.5
FEB. 16.....	1400	6.5	1.5	0.5	AUG. 24.....	1145	0.10	24.0	23.5
MAR. 04.....	1325	365	12.5	8.0					
05598210 SYCAMORE CREEK NEAR CARBONDALE, IL (LAT 37 42 30 LONG 089 10 20)									
APR. 07.....	1600	4.7	28.5	17.0	AUG. 29.....	1430	6.3	25.0	23.0
JULY 01.....	1440	2.6	32.0	26.0					
05598700 PANTHER CREEK NEAR PYATTS, IL (LAT 38 00 10 LONG 089 20 07)									
APR. 07.....	1000	10	20.0	12.5	AUG. 26.....	1045	4.0	27.0	24.0
JULY 07.....	1110	4.6	36.0	28.5					
05599000 BEAUCOUP CREEK NEAR MATTHEWS, IL (LAT 37 58 00 LONG 089 21 00)									
OCT. 07.....	1520	12	19.0	15.5	APR. 28.....	1455	17	25.0	16.0
NOV. 11.....	1510	5.7	5.0	5.0	JUNE 27.....	1240	174	31.5	24.0
JAN. 04.....	1600	5.4	0.0	0.0	JULY 07.....	1330	10	38.5	29.0
FEB. 11.....	1245	32	18.0	1.0	AUG. 05.....	1430	3.4	32.5	26.5
MAR. 17.....	1445	147	10.0	11.5	AUG. 26.....	1200	10	27.5	23.5
APR. 07.....	1300	120	27.0	13.0					
05599055 PIPESTONE CREEK NEAR DENMARK, IL (LAT 37 57 58 LONG 089 29 03)									
APR. 06.....	1215	8.2	8.5	11.0	AUG. 25.....	1500	4.8	27.0	27.0
JULY 06.....	1330	1.2	38.5	35.0					
05599080 PIPESTONE CREEK NEAR AVA, IL (LAT 37 57 33 LONG 089 26 34)									
APR. 06.....	1120	17	11.0	9.2	AUG. 25.....	1315	4.7	27.0	23.5
JULY 06.....	1500	1.00	38.5	23.5					
05599300 BEAUCOUP CREEK NEAR ORAVILLE, IL (LAT 37 51 43 LONG 089 19 57)									
APR. 07.....	1400	403	28.0	13.0	AUG. 25.....	1045	41	27.0	23.0
JULY 05.....	1300	24	36.0	28.0					
05599500 BIG MUDDY RIVER AT MURPHYSBORO, IL (LAT 37 44 55 LONG 089 20 45)									
*OCT. 18.....	1540	63	13.0	13.0	*APR. 01.....	1400	17500	18.0	15.2
*NOV. 15.....	1300	65	6.0	5.0	*MAY 02.....	1400	808	24.5	18.0
*DEC. 13.....	1530	126	0.0	1.0	*JUNE 01.....	1000	285	28.5	25.8
*JAN. 17.....	1100	75	---	0.0	*JULY 11.....	1545	413	33.0	28.5
*JAN. 26.....	1335	86	6.0	8.0	*AUG. 16.....	1400	937	34.0	26.0
*FEB. 08.....	1130	100	2.0	0.0	*SEPT.12.....	1200	190	24.0	23.5
*MAR. 22.....	1400	1420	14.5	11.5					

* Mean daily discharge.

BUREAU COUNTY

412220089280301. Local number, 16N-9E-16.8e.
LOCATION.--Lat 41°22'20", long 89°28'03", Hydrologic Unit 07130001, 326 First Street, Princeton.
Owner: Helen Croisant.
AQUIFER.--Glacial Drift.
WELL CHARACTERISTICS.--Dug unused water-table well, diameter 32 in (0.81 m), depth 29 ft (8.84 m), cribbed with brick.
DATUM.--Land surface datum is 698 ft (213 m) above mean sea level. Measuring point: Top of casing, 3 ft (0.91 m) below land-surface datum, since Aug. 5, 1959.
PERIOD OF RECORD.--November 1942 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.94 ft (0.90 m) below land-surface datum, May 15, 1943; lowest, 26.64 ft (8.12 m) below land-surface datum, Mar. 30, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10	9.00	DEC 10	10.74	FEB 10	13.85	APR 10	7.25	JUN 10	8.51	AUG 10	7.22
24	9.38	20	11.08	20	13.32	20	7.75	20	8.35	20	7.50
NOV 10	9.74	JAN 10	12.25	MAR 10	12.54	MAY 10	6.93	JUL 10	7.79	SEP 10	7.15
20	10.18	20	13.08	20	9.42	20	7.74	20	6.94	20	4.74

DU PAGE COUNTY

414236087583301. Local number, 37N-11E-9H1.
LOCATION.--Lat 41°42'36", long 87°58'33", Hydrologic Unit 07120004, at Argonne National Laboratory.
Owner: Argonne National Laboratory.
AQUIFER.--Niagara Dolomite of Middle Silurian Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in (0.25 m), depth 199 ft (60.7 m), cased to 86 ft (26.2 m).
DATUM.--Land-surface datum is 705 ft (215 m) above mean sea level. Measuring point: Top of casing, 2.40 ft (0.73 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--November 1948 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 57.79 ft (17.6 m) below land-surface datum, May 8, 1950; lowest, 91.59 ft (27.9 m) below land-surface datum, Sept. 23, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	88.65	88.59	88.40	88.28	89.25	89.31	88.18	88.65	89.00	---	91.00	90.60
10	88.22	88.56	88.40	88.46	89.10	89.00	88.32	88.68	89.70	90.58	91.10	90.90
15	88.40	88.40	88.20	88.40	89.22	89.42	88.60	88.48	89.20	90.90	---	90.80
20	88.54	88.70	88.43	88.63	89.60	88.65	88.60	89.22	89.40	---	90.60	91.00
25	88.53	88.20	87.95	88.48	89.61	89.60	88.26	---	89.58	---	---	90.70
EOM	88.56	88.35	88.00	88.60	89.10	88.80	88.61	89.00	89.55	---	---	90.40
MIN	88.22	88.20	87.95	88.28	89.10	88.65	88.18	88.48	89.00	---	---	90.40

WTR YR 1977 MAX 87.17 DEC. 27, 1976, APR. 4, 1977 MIN 91.59 SEPT. 23, 1977

414217087592801. Local number 37N-11E-9K1.
LOCATION.--Lat 41°42'17", long 87°59'28", Hydrologic Unit 07120004, at Argonne National Laboratory.
Owner: Argonne National Laboratory.
AQUIFER.--Niagara Dolomite of Middle Silurian Age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in (0.10 m), depth 140 ft (42.7 m), cased to 90.0 ft (27.4 m), open end.
DATUM.--Land-surface datum is 733 ft (223 m).
Measuring point: Top of casing 0.31 ft (0.09 m) above land-surface datum.
REMARKS.--Water levels affected by pumping of nearby wells.
PERIOD OF RECORD.--December 1948 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 88.97 ft (27.1 m) below land-surface datum, May 27, 1951; lowest, 100.74 ft (31.0 m) below land-surface datum, Sept. 1-4, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	99.31	99.49	100.04	100.07	99.91	100.01	99.57	99.56	100.05	100.14	100.24	100.71
10	99.33	99.49	100.06	100.11	99.92	100.00	---	---	100.10	100.14	100.30	100.60
15	99.29	99.62	99.92	100.07	99.99	99.66	99.74	99.75	100.07	---	100.30	100.59
20	99.43	99.66	99.90	---	99.99	99.67	99.75	99.80	100.10	100.24	100.68	100.50
25	99.38	---	99.86	100.03	99.87	99.74	99.76	99.86	100.15	100.28	100.65	100.38
EOM	99.48	99.84	99.95	100.03	99.97	99.72	99.79	99.94	100.14	100.25	100.72	100.40
MIN	99.29	99.49	99.86	100.03	99.87	99.66	99.57	99.56	100.05	100.14	100.24	100.38

WTR YEAR 1977 MAX 99.23 OCT. 15, 1976 MIN 100.74 SEPT. 1-4, 1977

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

FULTON COUNTY

STATION NUMBER	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TOTAL CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
402612090030800	77-03-08	900	7.3	13.5	88	51	6.0	.0	347	65	17
402613090061900	77-03-08	1000	7.2	18.0	106	56	11	.0	376	48	9.0
402613090074400	77-03-08	800	7.4	16.0	90	42	9.0	.0	347	16	6.0
402627090072600	77-03-08	840	7.3	15.0	130	40	19	1.0	465	16	3.0
402651090042600	77-03-08	670	7.4	13.0	75	37	7.0	1.0	364	16	2.0
402657090103300	77-04-12	550	7.1	13.0	86	27	16	20	220	48	34
402706090065800	77-03-08	1000	6.9	10.0	140	60	20	.0	387	81	29
402707090051200	77-03-08	830	7.3	11.0	102	47	7.0	.0	428	32	8.0
402709090062700	77-03-08	1000	8.0	15.0	120	69	57	1.0	458	16	18
402713090023600	77-08-16	967	7.1	10.9	120	57	28	3.0	535	42	18
402715090040500	77-03-08	790	7.3	13.0	82	43	14	.0	302	16	11
402716090041000	77-03-08	890	7.6	14.0	95	43	14	6.0	299	32	16
402733090094000	77-04-12	650	7.1	14.0	100	49	25	.0	291	137	15
402739090111200	77-04-12	650	7.8	--	99	45	14	.0	322	.0	61
402740090101800	77-04-12	700	7.4	14.0	130	49	15	.0	292	168	13
402743090032600	77-04-13	750	7.1	15.0	98	45	14	.0	414	81	30
402744090034800	77-08-16	1120	7.2	10.9	145	72	21	2.0	386	162	9.0
402751090052200	77-07-11	1000	7.2	19.0	--	--	--	--	610	4.6	3.5
402816090112400	77-04-12	650	7.4	16.0	90	45	27	1.0	275	129	18
402822090084200	77-04-12	750	6.9	13.5	130	56	31	.0	305	162	28
402827090071300	77-08-17	2650	6.9	11.3	360	160	47	15	496	3230	20
402834090033100	77-08-16	5600	6.6	11.3	470	190	109	10	588	1680	15
402904090060800	77-08-16	2450	6.9	11.0	360	160	19	8.0	510	908	10
402907090024100	77-04-13	550	6.9	15.0	90	69	9.0	1.0	259	48	16
402908090051401	77-08-16	660	7.3	10.3	128	55	13	2.0	482	78	10
402940090061900	77-08-16	2600	7.2	11.9	310	160	38	6.0	571	1043	19
402955090062000	77-08-16	2800	6.8	12.1	280	140	305	12	1062	704	29
403008090043900	77-03-09	1500	7.5	10.5	190	98	11	.0	345	39	22
403011090064900	77-08-16	2900	6.8	12.7	300	155	245	27	1243	872	20
403015090065900	77-08-17	2550	6.9	11.2	310	108	272	16	969	875	20
403034090062200	77-08-17	3220	6.7	12.0	--	--	--	--	878	1253	21
403101090051300	77-03-09	1100	7.8	14.0	150	64	22	2.0	349	97	17
403106090036300	77-03-09	4000	6.7	17.0	650	230	114	9.0	567	1712	17
403148090074700	77-04-12	550	7.3	15.0	97	35	11	1.0	337	32	4.0
403315090041200	77-07-11	530	7.7	21.0	--	--	--	--	250	31	4.8

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

FULTON COUNTY--Continued

STATION NUMBER	DATE OF SAMPLE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)
402612090030800	77-03-08	3.9	<.10	.30	4.3	19	.05	0	0	30	50
402613090061900	77-03-08	2.4	<.10	.10	2.5	11	.06	0	0	0	0
402613090074400	77-03-08	6.4	<.10	.10	6.5	29	.04	0	0	0	0
402627090072600	77-03-08	.09	.80	1.0	1.1	4.8	.11	0	0	20	0
402651090042400	77-03-08	.07	<.10	.00	.07	.30	.06	0	0	10	50
402657090103300	77-04-12	4.8	.10	1.2	6.0	27	.46	1000	0	0	0
402706090065800	77-03-08	.90	.40	.70	1.6	7.1	.11	0	0	0	20
402707090051200	77-03-08	4.3	<.10	.00	4.3	19	.07	0	0	10	50
402709090062700	77-03-08	4.1	.30	.70	4.9	22	.08	0	0	0	70
402713090023400	77-08-16	<.01	.10	.40	.41	1.8	.14	1000	0	0	0
402715090040500	77-03-08	5.7	<.10	.10	5.8	26	.05	0	0	0	10
402716090041000	77-03-08	15	<.10	.40	16	71	.15	0	0	0	0
402733090094000	77-04-12	9.4	<.10	.30	9.7	43	.04	0	0	0	0
402739090111200	77-04-12	9.8	<.10	.10	9.9	44	.02	0	0	0	100
402740090101800	77-04-12	5.4	<.10	.40	5.9	26	.04	0	0	0	0
402743090032600	77-04-13	6.9	<.10	.60	7.5	33	.03	1000	0	0	220
402744090034800	77-08-16	.08	<.10	.00	.08	.40	.02	1000	0	0	0
402751090052200	77-07-11	.01	1.1	1.1	1.1	4.9	.03	90	0	10	7
402816090112400	77-04-12	3.7	<.10	<.10	--	--	.02	0	0	0	310
402822090084200	77-04-12	11	<.10	<.10	--	--	.04	0	0	0	0
402827090071300	77-08-17	.08	.70	1.5	1.6	7.0	.04	2000	0	0	0
402834090033100	77-08-16	.31	.50	.80	1.1	4.9	.05	1000	0	0	0
402904090060800	77-08-16	.14	.20	.40	.54	2.4	.05	10000	0	0	0
402907090024100	77-04-13	11	<.10	.40	11	51	.07	0	0	0	210
402908090051401	77-08-16	.24	.50	.80	1.0	4.6	.03	10000	0	0	0
402940090061900	77-08-16	.06	<.10	4.6	4.7	21	.04	103000	0	0	60
402955090062000	77-08-16	.05	.60	3.5	3.5	16	.05	29000	0	0	0
403008090043900	77-03-09	2.0	<.10	.00	2.1	9.1	.08	0	0	0	20
403011090064900	77-08-16	.07	.60	2.3	2.4	10	.13	78000	0	120	70
403015090065900	77-08-17	.07	.80	3.2	3.3	14	.05	64000	0	30	80
403034090062200	77-08-17	.09	.10	.10	.19	.80	.02	--	--	--	--
403101090051300	77-03-09	.16	<.10	.00	.16	.70	.08	0	0	0	20
403106090034300	77-03-09	.06	.60	.50	.56	2.5	.12	0	0	0	130
403148090074700	77-04-12	.82	<.10	.10	.92	4.1	.01	0	0	0	60
403315090041200	77-07-11	.00	.01	.01	.01	.00	.01	240	0	10	8

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

FULTON COUNTY--Continued

STATION NUMBER	DATE OF SAMPLE	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
402612090030800	77-03-08	600	0	0	.0	0	0	0
402613090061900	77-03-08	200	0	0	.0	0	0	0
402613090074400	77-03-08	0	110	0	.0	0	0	0
402627090072600	77-03-08	2800	0	50	.0	0	0	400
402651090042400	77-03-08	3300	0	180	.0	0	0	0
402657090103300	77-04-12	2400	0	160	.0	0	--	0
402706090065800	77-03-08	5900	20	110	.0	0	0	0
402707090051200	77-03-08	6000	50	20	.0	0	0	100
402709090062700	77-03-08	50000	100	280	.1	0	0	700
402713090023400	77-08-16	1200	50	1880	.0	0	--	0
402715090040500	77-03-08	500	30	40	.0	0	0	0
402716090041000	77-03-08	300	150	30	.0	0	0	100
402733090094000	77-04-12	500	0	30	.1	0	--	0
402739090111200	77-04-12	0	0	20	.0	0	--	0
402740090101800	77-04-12	0	20	50	.0	0	--	0
402743090032600	77-04-13	0	0	30	.0	0	--	0
402744090034800	77-08-16	1900	20	1030	.0	0	--	0
402751090052200	77-07-11	18000	75	520	.0	16	--	5500
402816090112400	77-04-12	0	0	30	.0	0	--	0
402822090084200	77-04-12	0	0	0	.0	0	--	0
402827090071300	77-08-17	1600	120	1870	.1	0	--	0
402834090033100	77-08-16	1300	50	5500	.0	0	--	0
402904090060800	77-08-16	4000	50	4120	.0	0	--	0
402907090024100	77-04-13	1700	0	50	.0	0	--	0
402908090051401	77-08-16	26600	100	740	.0	0	--	0
402940090061900	77-08-16	52400	80	6400	.0	0	--	0
402955090062000	77-08-16	20000	70	2060	.0	0	--	0
403008090043900	77-03-09	1100	0	0	.0	0	0	100
403011090064900	77-08-16	60900	110	5300	.0	0	--	0
403015090065900	77-08-17	59000	170	4250	.0	0	--	0
403034090062200	77-08-17	--	--	--	--	--	--	--
403101090051300	77-03-09	200	10	90	.0	0	0	600
403106090034300	77-03-09	9200	210	1740	.0	0	0	0
403148090074700	77-04-12	0	0	0	.0	0	0	500
403315090041200	77-07-11	1600	16	90	.1	7	--	2100

INDEX

Page

Ackerman Creek at Farmdale 193,416
Acre-foot, definition of 2
Addison Creek, at Bellwood 122,413
  at Northlake 367
  tributary at Elmhurst 388
Addison, Salt Creek at 366
Adenosine triphosphate, definition of 2
Albers, Sugar Creek at 319,422
Alden, Nippersink Creek near 397
  Nippersink Creek tributary at 397
  North Branch Kishwaukee River tributary near 387
Algae, definition of 2
Algal growth potential, definition of 2
Algonquin, Fox River at 180,415
Alsip, Calumet Sag Channel at 390
Alton, Mississippi River at 291-295
Amboy, Green River at 360
Andrew, Sangamon River tributary at 383
Annapolis, Raccoon Creek tributary near 357
Antioch, Channel Lake near 172
Apple River basin, crest-stage partial-record stations in 358
  gaging-station records in 63
  miscellaneous temperature measurements in 409
Apple River, near Hanover 63,409
  South Fork, near Nora 358
Aptakisic, Aptakisic Creek at 363
Aptakisic Creek at Aptakisic 363
Aquifer, definition of 2
Argenta, Friends Creek at 237,418
Arnold Creek tributary at East Peoria 391
Artesian, definition of 2
Asa Creek at Sullivan 305,421
Ashmore, Embarras River near 386,406
Atwood, Lake Fork at 301,421
Aurora, Indian Creek at 381
Ava, Pipestone Creek near 393,402, 403,424

Bacteria, definition of 2
Bankston Fork near Dorris Heights 387,400, 401,408
Bannockburn, North Branch Chicago River at 368
  West Fork of North Branch Chicago River at 370
Barrington, Poplar Creek near 398
Barry, Hadley Creek near 361
  Kiser Creek tributary near 361
Bartlett, Poplar Creek near 398
  Poplar Creek tributary near 379
Bartonville, Kickapoo Creek at 391
Bay Creek, at Nebo 100,411
  at Pittsfield 99,411
Bay Creek basin (tributary to Mississippi River), gaging-station records in 99-100
  miscellaneous temperature measurements in 411
Bay Creek basin (tributary to Ohio River), crest-stage partial-record stations in 358
Bear Creek basin, crest-stage partial-record stations in 361
  gaging-station records in 97
  miscellaneous temperature measurements in 411
Bear Creek near Marcelline 97,411
Bear Creek tributary near Reeders 384
Beaucoup Creek, near Matthews 338,402, 403,424
  near Oraville 393,402, 403,424
Bed material, definition of 3
Beecher City, Wolf Creek near 309,421
Bellwood, Addison Creek at 122,413
Belmont, St. Joseph Creek at 377
Belvidere, Kishwaukee River at 74,409
Benton, Rend Lake near 334
Big Bureau Creek at Princeton 191,416
Big Creek (Cache River basin) near Wetaug 385
Big Creek (Illinois River basin), at St. David 207-213, 417
  near Bryant 220-226, 418
Big Four Ditch tributary near Paxton 357

Page

Big Muddy River, at Murphysboro 339-351, 424
  at Plumfield 335,423
Big Muddy River basin, discharge measurements at miscellaneous sites in 393
  gaging-station records in 333-351
  miscellaneous temperature measurements in 423-424
  water-quality partial-record stations in 400-403
Big Rock Creek, East Branch, near Big Rock 381
  East Branch, near Troxel 390
Big Rock, East Branch Big Rock Creek near 381
  Welch Creek near 382
Biggsville, South Henderson Creek at 360
Biochemical oxygen demand, definition of 3
Biomass, definition of 3
Blackberry Creek, near Kaneville 381
  near Sugar Grove 381
  near Yorkville 185,416
Blood, Little Wabash River at 38,386, 407
Bloomingdale, East Branch Du Page River near 376
  Spring Brook at 366
Bloomington, Country Club Branch Sugar Creek at 391,404, 405,419
  Goose Creek above Sewage Plant at 392,404, 405,419
  Skunk Creek at 392,404, 405,419
  Sugar Creek above Sewage Plant at 257-258, 392
  Sugar Creek at Market Street at 392,404, 405,419
  Sugar Creek near 259-261
  West Slough at 255-256, 392
Blue Grass Creek near Raymond 316,422
Blue Island, Calumet Sag Channel at 143-144
  Midlothian Creek at 397
Bluegrass Creek at Potomac 357
Bondville, Kaskaskia Ditch at 299,421
Boneyard Creek, at Urbana 22,406
  at Vine Street at Urbana 386
Bonpas Creek at Browns 29,407
Boone Creek near McHenry 178,415
Bottom material, definition of 3
Bourbonnais, Kankakee River tributary near 361
Bowes, Bowes Creek at 380
Bowes Creek at Bowes 380
Bradley, Soldier Creek at 387
Breckenridge, Little Creek near 361
Breese, Shoal Creek near 318,422
Brewster Creek at Valley View 379
Browns, Bonpas Creek at 29,407
Brush Creek near Divernon 243,418
Brushy Creek near Harco 51,400, 401,408
Brushy Fork at Brushy Fork 386,406
Brushy Fork, Brushy Fork at 386,406
Bryant, Big Creek near 220-226, 418
  Evelyn Branch near 214-219, 417
  Slug Run near 227-234, 418
Buffalo Creek, at Long Grove 363
  near Lake Zurich 363
  near Wheeling 116,412
Bureau County, well in 425
Bureau, East Bureau Creek near 382
Bushnell, Drowning Fork at 268,420
Butterfield Creek, at Flossmoor 137,414
  at Olympia Fields 396
  near Flossmoor 396
  near Lincoln Estates 371

Cache River at Forman 56,409
Cache River basin, crest-stage partial-record stations in 385
  gaging-station records in 56
  miscellaneous temperature measurements in 409

Page

- Cahokia Canal basin, gaging-station records in 298
  - miscellaneous temperature measurements in 421
- Cahokia Creek, at Edwardsville 296,420
  - tributary near Carpenter 384
- Cahokia Creek basin, crest-stage partial-record stations in 384
  - gaging-station records in 296-297
  - miscellaneous temperature measurements in 420
- Calumet City, Grand Calumet River at 389
- Calumet Park, Little Calumet River at 389
- Calumet River, at Chicago 57-58
  - at Ewing Street at Chicago 387
- Calumet Sag Channel, at Alsip 390
  - at Blue Island 143-144
  - at Sag Bridge 390
- Calumet Union Drainage Canal, at Markham 396
  - at South Holland 396
  - near Markham 372
  - tributary near Hazel Crest 396
- Camargo, Embarras River near 24,406
- Canteen Creek at Caseyville 298,421
- Capron, Little Beaver Creek near 395
  - Mokeler Creek near 395
  - Piscasaw Creek below Mokeler Creek near 359
  - Rush Creek near 394
- Carbondale, Sycamore Creek near 393,402, 403,424
- Carlyle, Carlyle Lake near 312
  - Kaskaskia River at 313,422
- Carlyle Lake near Carlyle 312
- Carmi, Little Wabash River at 44,408
- Carol Stream, Klein Creek at 375
- Carpenter, Cahokia Creek tributary near 384
- Carpentersville, Spring Creek near 398
- Carrier Mills, South Fork Saline River near 47-50, 408
- Carterville, Crab Orchard Lake near 337
- Cary, Fox River tributary near 378
- Casey, Range Creek near 26,406
- Caseyville, Canteen Creek at 298,421
- Catlin, Salt Fork tributary near 357
- Cedar Creek at Little York 360
- Cedar Creek tributary at St. Augustine 383
- Cells/volume, definition of 3
- Centex Drainage ditch at Elk Grove Village 388
- Cfs-day, definition of 3
- Champaign, Copper Slough near 392
- Channahon, Des Plaines River at 152-153
- Channel Lake, Fox River near 171
- Channel Lake near Antioch 172
- Charlotte, North Fork Vermilion River near 382
- Chebanse, Iroquois River near 106,412
- Chemical oxygen demand, definition of 3
- Chemung, Piscasaw Creek at 395
- Cherry Creek at Hazel Crest 396
- Chester, Mississippi River at 355
- Chicago, Calumet River at 57-58
  - Calumet River at Ewing Street at 387
  - Chicago Sanitary and Ship Canal at Ashland Ave. at 132-133
  - Chicago Sanitary and Ship Canal at Cicero Avenue at 388
  - Lake Michigan at Calumet Park at 60-61
  - North Branch Chicago River at Chicago Avenue at 388
  - Wolf Lake at 59
- Chicago Heights, Deer Creek near 136,414
  - Thorn Creek at 396
  - Thorn Creek near 134,414
  - Thorn Creek tributary at 371
- Chicago River, North Branch, at Bannockburn 368
  - North Branch, at Chicago Avenue at Chicago 388
    - at Deerfield 127,413
    - at Glenview 369
    - at Lake Forest 368
    - at Morton Grove 370
    - at Niles 131,413
    - at Northfield 369
    - West Fork of, at Bannockburn 370
      - at Deerfield 370
      - at Glenview 370
      - at Northbrook 130,413
- Chicago Sanitary and Ship Canal, at Ashland Ave. at Chicago 132-133
  - at Cicero Avenue at Chicago 388
  - at Romeo 146-147
  - near Sag Bridge 389

Page

- Chlorophyll, definition of 3
- Clarendon Hills, Flag Creek at 388
- Clay City, Little Wabash River below 37,407
  - Little Wabash River tributary at 357
- Clinton, Ia., Mississippi River at 67
- Coal City, Mazon River near 161,415
- Coffee Creek tributary near Hennepin 382
- Coffeen, East Fork Shoal Creek near 317,422
- Colmar, La Moine River at 269-271
- Color unit, definition of 3
- Como, Rock River at 360
- Congerville, Mackinaw River near 200,417
- Contents, definition of 3
- Control, definition of 3
- Control structure, definition of 3
- Cooks Mills, Kaskaskia River at 302-304, 421
- Coon Creek, at Riley 73,409
  - near Riley 394
- Cooperation 1-2
- Copper Slough near Champaign 392
- Cornland, Lake Fork near 247,419
- Cowden, Kaskaskia River near 308,421
- Crab Orchard Creek near Marion 336,402, 403,424
- Crab Orchard Lake near Carterville 337
- Crane Creek near Easton 384
- Crooked Creek (Illinois River basin) near Palos Park 390
- Crooked Creek (Kaskaskia River basin) near Hoffman 314,422
- Crow Creek near Washburn 382
- Crow Creek (West) near Henry 382
- Crystal Creek (tributary to Des Plaines River), at Schiller Park 395
  - near Schiller Park 395
- Crystal Creek (tributary to Fox River) at Lake in the Hills 398
- Cubic feet per second per square mile, definition of 3
- Cubic foot per second, definition of 3

- Danville, Vermilion River near 23,406
- Dayton, Fox River at 186,416
- De Soto, Little Muddy River near 393,400, 401,423
- Decatur, Spring Creek at 391
  - Spring Creek tributary at 239-240
  - Stevens Creek at 391
  - Stevens Creek near 391
- Deer Creek, near Chicago Heights 136,414
  - near Sauk Village 396
  - near Steger 396
- Deerfield, North Branch Chicago River at 127,413
  - West Fork of North Branch Chicago River at 370
- Definition of terms 2-7
- Denmark, Pipestone Creek near 393,402, 403,424
- Des Plaines, Des Plaines River near 117,412
  - Weller Creek at 119,412
- Des Plaines River, at Channahon 152-153
  - at Park Ridge 395
  - at River Grove 365
  - at Riverside 123,413
  - at Rockdale 149-150
  - at Romeo 125-126
  - at Russell 112,412
  - at Wheeling 363
  - near Des Plaines 117,412
  - near Gurnee 113-115, 412
- Diamond Lake drain at Mundelein 362
- Diamond Lake, Indian Creek at 362
- Diona, Embarras River near 25,406
- Discharge, definition of 3
- Dissolved, definition of 3
- Divernon, Brush Creek near 243,418
- Diversity index, definition of 4
- Dixon Springs, Lake Glendale Inlet near 358
  - Sugar Creek near 358
- Dorris Heights, Bankston Fork near 387,400, 401,408
- Downers Grove, East Branch Du Page River near 376
- Downstream order and station number 7
- Drainage area, definition of 4
- Drainage basin, definition of 4

Page
Dresden Island, Illinois River at ... 159-160
Drowning Fork at Bushnell ... 268,420
Dry Run, East Fork, at Peoria ... 391
Du Page County, wells in ... 425
Du Page River, at Shorewood ... 158,415
  East Branch, at Glen Ellyn ... 376
    near Bloomingdale ... 376
    near Downers Grove ... 376
  West Branch, at Ontarioville ... 374
    at Schaumburg ... 390
    at West Chicago ... 375
    near Warrenville ... 155-157, 415
    near Wayne ... 374
    near West Chicago ... 154,415
Dums Creek tributary near Iuka ... 357
Durand, Otter Creek tributary near ... 358
Dutch Creek at Johnsburg ... 398
Dyer, Ind., Plum Creek at ... 396
  Plum Creek near ... 371

Eagle Creek near Equality ... 52,408
East Bureau Creek near Bureau ... 382
East Peoria, Arnold Creek tributary at ... 391
  Farm Creek at ... 195,417
  Fondulac Creek near ... 194,416
Easton, Crane Creek near ... 384
Eddyville, Lusk Creek near ... 53,408
Edwards, Kickapoo Creek near ... 391
Edwards River basin, gaging-station records in ... 92-93
  miscellaneous temperature measurements in ... 410
Edwards River, near New Boston ... 93,410
  near Orion ... 92,410
Edwardsville, Cahokia Creek at ... 296,420
Effingham, Little Wabash River near ... 30,407
El Paso, East Branch Panther Creek at ... 199,417
  Panther Creek near ... 383
Elgin, Poplar Creek at ... 181-183, 416
  Poplar Creek near ... 398
  Tyler Creek at ... 378
Elizabeth Lake drain at Richmond ... 398
Elk Grove Village, Centex Drainage ditch at ... 388
  Willow Creek at ... 364
Elkhorn Creek near Penrose ... 79,410
Ellison Creek basin, crest-stage partial-record stations in ... 361
Ellison Creek tributary near Roseville ... 361
Elmhurst, Addison Creek tributary at ... 388
  Salt Creek at ... 367
Embarras River, at Hugo ... 386,406
  at Ste. Marie ... 27,406
  near Ashmore ... 386,406
  near Camargo ... 24,406
  near Diona ... 25,406
  North Fork, near Oblong ... 28,407
  tributary near Greenup ... 357
Equality, Eagle Creek near ... 52,408
Evelyn Branch near Bryant ... 214-219, 417

Fairdale, South Branch Kishwaukee River near ... 75,410
Farm Creek, at East Peoria ... 195,417
  at Farmdale ... 192,416
Farmdale, Ackerman Creek at ... 193,416
  Farm Creek at ... 192,416
Ferry Creek at Warrenville ... 376
Ferson Creek, at Wasco ... 380
  near Fox River Heights ... 380
  near St. Charles ... 184,416
Flag Creek, at Clarendon Hills ... 388
  near Willow Springs ... 124,413
Flat Branch near Taylorville ... 241,418
Flint Creek near Fox River Grove ... 378
Florence, Illinois River tributary at ... 384
Flossmoor, Butterfield Creek at ... 137,414
  Butterfield Creek near ... 396
Flossmoor Road Drainage ditch near Tinley Park ... 397
Fondulac Creek near East Peoria ... 194,416
Forman, Cache River at ... 56,409
Forreston, Leaf River tributary near ... 360
Fox, Fox River tributary No. 2 near ... 381
Fox Lake near Lake Villa ... 173
Fox Lake, Nippersink Lake at ... 174

Page
Fox River, at Algonquin ... 180,415
  at Dayton ... 186,416
  at Johnsburg ... 177
  near Channel Lake ... 171
  near McHenry ... 179
  tributary near Cary ... 378
    No. 2 near Fox ... 381
Fox River Grove, Flint Creek near ... 378
  Spring Creek at ... 378
Fox River Heights, Ferson Creek near ... 380
Franklin Park, Silver Creek at ... 395
Franklinville Creek at Franklinville ... 394
Franklinville, Franklinville Creek at ... 394
  Kishwaukee River at ... 394
  North Branch Kishwaukee River near ... 394
Freeburg, Silver Creek near ... 331,423
Freeport, Pecatonica River at ... 70,409
Friends Creek at Argenta ... 237,418
Fulton County, quality of ground water in ... 426-428
Fulton, Mississippi River at Dam 13 near ... 65-66

Gage height, definition of ... 4
Gaging station, definition of ... 4
Gar Creek ditch at Kankakee ... 387
Garden Prairie, Kishwaukee River near ... 394
  Rush Creek near ... 359
  Spring Creek near ... 359
Gardner, Mazon River tributary near ... 377
Geneseo, Green River near ... 90,410
Gilberts, Tyler Creek near ... 378
Gilead, Salt Spring Creek near ... 361
Gimlet Creek at Sparland ... 382
Glen Ellyn, East Branch Du Page River at ... 376
Glencoe, Skokie River at ... 396
Glendale, Hayes Creek at ... 358
Glenview, North Branch Chicago River at ... 369
  West Fork of North Branch Chicago River at ... 370
Glenwood, Thorn Creek at ... 135,414
Golconda, Ohio River at ... 54
Golden Gate, Little Wabash River near ... 39,386, 407
Goose Creek above Sewage Plant at Bloomington ... 392,404, 405,419
Goreville, Little Saline Creek tributary near ... 358
Grand Calumet River at Calumet City ... 389
Green Creek tributary near Jonesboro ... 385
Green River, at Amboy ... 360
  near Geneseo ... 90,410
Green Valley, Mackinaw River near ... 383
Greenup, Embarras River tributary near ... 357
Greenview, Salt Creek near ... 262,419
Greenwood, Nippersink Creek at ... 377
  Nippersink Creek near ... 397
  Vander Karr Creek near ... 398
Ground-water level data, collection of ... 12
  explanation of ... 12
Ground water, quality of ... 426-428
  level data ... 425
Gurnee, Des Plaines River near ... 113-115 412

Hadley Creek, at Kinderhook ... 98,411
  near Barry ... 361
Hadley Creek basin, crest-stage partial-record stations in ... 361
  gaging-station records in ... 98
  miscellaneous temperature measurements in ... 411
Hampshire Creek near Harmony ... 359
Hampton, Mississippi River at Dam 14 near ... 68-69
Hanover, Apple River near ... 63,409
Harco, Brushy Creek near ... 51,400 401,408
Hardin, Illinois River at ... 289-290
Hardness, definition of ... 4
Harmony, Hampshire Creek near ... 359
Hartland, North Branch Kishwaukee River near ... 358
Hartsburg, Sugar Creek near ... 384
Harvard, Lawrence Creek tributary near ... 359
Hawthorn Drainage ditch, at Mundelein ... 388
  near Mundelein ... 362
Hayes Creek at Glendale ... 358
Hazel Crest, Calumet Union Drainage Canal tributary near ... 396
  Cherry Creek at ... 396
Hecker, Richland Creek near ... 332,423

Page

Henderson Creek basin, crest-stage partial-record stations in........ 360
  gaging-station records in........ 95
  miscellaneous temperature measurements in.... 411
Henderson Creek, near Little York........ 360
  near Oquawka........ 95,411
Hennepin, Coffee Creek tributary near........ 382
Henry, Crow Creek (West) near........ 382
Hickory Corners, North Mill Creek at........ 361
Hickory Creek at Joliet........ 151,415
Higgins Creek n[illegible] Mount Prospect........ 364
Highland Park, [illegible]kie River near........ 129,413
Hoffman, Crooked Creek near........ 314,422
Homer, Salt Fork near........ 357
Horse Creek (Illinois River basin) at Pawnee... 242,418
Horse Creek (Wabash River basin) near Keenes... 41,407
Hugo, Embarras River at........ 386,406
Huntley, Kishwaukee River near........ 358
  South Branch Kishwaukee River (East) at...... 359
Hurricane Creek (Illinois River basin) near Roodhouse........ 384
Hurricane Creek (Kaskaskia River basin), near Mulberry Grove........ 311,422
  tributary near Witt........ 385
Hydrologic conditions........ 2
  graph of........ 15
Hydrologic unit, definition of........ 4

Illinois River, at Dresden Island........ 159-160
  at Hardin........ 289-290
  at Kingston Mines........ 201-203, 417
  at Lock & Dam at La Grange........ 275-276
  at Lock & Dam at Peoria........ 196-197
  at Marseilles........ 162-170, 415
  at Meredosia........ 277,420
  at Starved Rock........ 187-188
  at Valley City........ 278-286, 420
  tributary at Florence........ 384
Illinois River basin, crest-stage partial-record stations in........ 361-384
  discharge measurements at miscellaneous sites in........ 387-392
  gaging-station records in........ 101-290
  miscellaneous temperature measurements in.... 411-420
  stage data in northeastern Illinois in....... 395-398
  water-quality miscellaneous sites in......... 404-405
Indian Creek (Cahokia Creek basin) at Wanda.... 297,420
Indian Creek (tributary to Des Plaines River), at Diamond Lake........ 362
  at Prairie View........ 363
Indian Creek (tributary to Fox River), at Aurora........ 381
  near North Aurora........ 380
Indian Creek (tributary to Spoon River) near Wyoming........ 204,417
Indian Creek tributary near Sinclair........ 384
Introduction........ 1
Iroquois, Iroquois River at........ 104,412
Iroquois River, at Iroquois........ 104,412
  near Chebanse........ 106,412
Island Lake, Mutton Creek at........ 377
Itasca, Spring Brook at Walnut Avenue........ 366
Iuka, Dums Creek tributary near........ 357
  Skillet Fork near........ 40,407

Jacksonville Branch at Churchill Road near Springfield........ 391
Jacksonville, North Fork Mauvaise Terre Creek near........ 384
Johnsburg, Dutch Creek at........ 398
  Fox River at........ 177
Joliet, Hickory Creek at........ 151,415
Jonesboro, Green Creek tributary near........ 385
Joslin, Rock River near........ 80-89, 410

Kane, Macoupin Creek near........ 288,420
Kaneville, Blackberry Creek near........ 381
Kankakee, Gar Creek ditch at........ 387
Kankakee River, at Momence........ 101-103, 411
  near Wilmington........ 107-111, 412
  tributary near Bourbonnais........ 361
Kaskaskia Ditch at Bondville........ 299,421

Page

Kaskaskia River, at Carlyle........ 313,422
  at Cooks Mills........ 302-304, 421
  at Shelbyville........ 307,421
  at Vandalia........ 310,421
  near Cowden........ 308,421
  near Pesotum........ 300,421
  near Venedy Station........ 320-328, 423
Kaskaskia River basin, crest-stage partial-record stations in........ 385
  discharge measurements at miscellaneous sites in........ 392
  gaging-station records in........ 299-332
  miscellaneous temperature measurements in.... 421-423
Keenes, Horse Creek near........ 41,407
Keithsburg, Pope Creek near........ 94,411
Kellogg, Mississippi River at........ 353-354
Keokuk, Ia., Mississippi River at........ 96
Kickapoo Creek (tributary to Illinois River), at Bartonville........ 391
  at Peoria........ 383
  near Edwards........ 391
  near Kickapoo........ 383
  tributary near Kickapoo........ 383
Kickapoo Creek (tributary to Salt Creek), at Waynesville........ 248,419
  near Lincoln........ 384
Kickapoo, Kickapoo Creek near........ 383
  Kickapoo Creek tributary near........ 383
Killbuck Creek near Monroe Center........ 360
Kincaid, South Fork Sangamon River at........ 383
Kinderhook, Hadley Creek at........ 98,411
Kingston Mines, Illinois River at........ 201-203, 417

Kiser Creek basin, crest-stage partial-record stations in........ 361
Kiser Creek tributary near Barry........ 361
Kishwaukee River, at Belvidere........ 74,409
  at Franklinville........ 394
  at Marengo........ 359
  Middle Branch of South Branch, near Malta.... 359
  near Garden Prairie........ 394
  near Huntley........ 358
  near Marengo........ 394
  near Perryville........ 76,410
  North Branch, near Franklinville........ 394
    near Hartland........ 358
    near Union........ 359
    tributary near Alden........ 387
  South Branch, near Fairdale........ 75,410
Kishwaukee River (East), South Branch, at Huntley........ 359
  South Branch, at Union........ 359
    near Union........ 394
Klein Creek at Carol Stream........ 375
Kress Creek at West Chicago........ 375

La Grange, Illinois River at Lock & Dam at..... 275-276
La Moine River, at Colmar........ 269-271
  at Ripley........ 272-274
LaFox, Mill Creek near........ 380
Lake Bluff, Skokie River at........ 369
Lake City, Stringtown Branch tributary near.... 385
Lake Forest, North Branch Chicago River at..... 368
  Skokie River at........ 128,413
Lake Fork (Illinois River basin) near Cornland........ 247,419
Lake Fork (Kaskaskia River basin) at Atwood........ 301,421
Lake Glendale Inlet near Dixon Springs........ 358
Lake in the Hills, Crystal Creek at........ 398
Lake Michigan at Calumet Park at Chicago....... 60-61
Lake Run near Mooseheart........ 381
Lake Shelbyville near Shelbyville........ 306
Lake Villa, Fox Lake near........ 173
Lake Zurich, Buffalo Creek near........ 363
Lakes
  Carlyle Lake near Carlyle........ 312
  Channel Lake near Antioch........ 172
  Crab Orchard Lake near Carterville........ 337
  Fox Lake near Lake Villa........ 173
  Nippersink Lake at Fox Lake........ 174
  Rend Lake near Benton........ 334
  Shelbyville, Lake, near Shelbyville........ 306
  Wolf Lake at Chicago........ 59
Lansing ditch, at Sauk Village........ 396
  near Lansing........ 138,414

Page
Lansing, Lansing ditch near.................... 138,414
  North Creek near.............................. 139,414
Lawrence Creek, at Lawrence.................... 395
  tributary near Harvard........................ 359
Lawrence, Lawrence Creek at.................... 395
  Piscasaw Creek near........................... 394
Leaf River, at Leaf River...................... 360
  tributary near Forreston...................... 360
Leaf River, Leaf River at...................... 360
Lemont, Long Run near.......................... 148,415
  Sawmill Creek near............................ 368
Leonore, Vermilion River near.................. 190,416
Lick Creek at North Pekin...................... 391
Lincoln Estates, Butterfield Creek near........ 371
Lincoln, Kickapoo Creek near................... 384
Lisle, Prentiss Creek near..................... 377
Little Beaver Creek near Capron................ 395
Little Calumet River, at Calumet Park.......... 389
  at South Holland.............................. 141,414
Little Creek near Breckenridge................. 361
Little Crooked Creek near New Minden........... 315,422
Little Muddy River near De Soto................ 393,400, 401,423
Little Saline Creek tributary near
    Goreville.................................. 358
Little Wabash River at Blood................... 38,386, 407
  at Carmi...................................... 44,408
  at Louisville................................. 31-36, 407
  below Clay City............................... 37,407
  near Effingham................................ 30,407
  near Golden Gate.............................. 39,386, 407
  tributary at Clay City........................ 357
Little York, Cedar Creek at.................... 360
  Henderson Creek near.......................... 360
London Mills, Spoon River at................... 205,417
Long Grove, Buffalo Creek at................... 363
Long Run, near Lemont.......................... 148,415
  near Orland Park.............................. 397
Louisville, Little Wabash River at............. 31-36, 407
Lucas ditch at Palos Hills..................... 397
Lusk Creek basin, gaging-station records in.... 53
  miscellaneous temperature measurements in..... 408
Lusk Creek near Eddyville...................... 53,408

McDonald Creek, near Mount Prospect............ 118,412
  near Wheeling................................. 364
McHenry, Boone Creek near...................... 178,415
  Fox River near................................ 179
Mackinaw River, near Congerville............... 200,417
  near Green Valley............................. 383
Macoupin Creek near Kane....................... 288,420
Mahomet, Sangamon River at..................... 235,418
Malta, Middle Branch of South Branch
    Kishwaukee River near...................... 359
Map, location of active surface-water
    gaging stations............................ 16-17
  location of water-quality stations and
    observation wells.......................... 18-19
Marcelline, Bear Creek near.................... 97,411
Marengo, Kishwaukee River at................... 359
  Kishwaukee River near......................... 394
  Mud Creek near................................ 387
Marion, Crab Orchard Creek near................ 336,402, 403,424
Marissa, Mud Creek near........................ 329,423
Markham, Calumet Union Drainage Canal at....... 396
  Calumet Union Drainage Canal near............. 372
Marley Creek near Mokena....................... 374
Marlow, White Feather Creek near............... 358
Marseilles, Illinois River at.................. 162-170, 415
Matthews, Beaucoup Creek near.................. 338,402, 403,424
Mauvaise Terre Creek, North Fork, near
    Jacksonville............................... 384
Mazon River, near Coal City.................... 161,415
  tributary near Gardner........................ 377
Melrose Park, Silver Creek at.................. 365
Melvina ditch near Oak Lawn.................... 373
Menominee, Sinsinawa River near................ 62,409
Meredosia, Illinois River at................... 277,420
Metamorphic stage, definition of............... 4
Methylene blue active substance,
    definition of.............................. 4

Page
Metropolis, Ohio River at...................... 55
Micrograms per gram, definition of............. 4
Micrograms per liter, definition of............ 4
Midlothian Creek, at Blue Island............... 397
  at Oak Forest................................. 142,414
  at Robbins.................................... 397
  at Tinley Park................................ 396
  near Tinley Park.............................. 372
  tributary at Midlothian....................... 397
Midlothian, Midlothian Creek tributary at...... 397
Milan, Mill Creek at........................... 91,410
  Sand Creek near............................... 360
Milford, Sugar Creek at........................ 105,412
Mill Creek (tributary to Calumet Sag Channel),
    at Palos Park.............................. 373
  near Palos Park............................... 373
Mill Creek (tributary to Des Plaines River),
    at Old Mill Creek.......................... 362
  at Wedges Corner.............................. 361
Mill Creek tributary to Fox River), near
    LaFox...................................... 380
  near Wasco.................................... 380
Mill Creek (tributary to Rock River)
    at Milan................................... 91,410
Mill Creek basin, crest-stage partial-
    record stations in......................... 360
Mill Shoals, Skillet Fork near................. 43,386, 408
Milligrams per liter, definition of............ 4
Mississippi River, at Alton.................... 291-295
  at Chester.................................... 355
  at Clinton, Ia................................ 67
  at Dam 13 near Fulton......................... 65-66
  at Dam 14 near Hampton........................ 68-69
  at Kellogg.................................... 353-354
  at Keokuk, Ia................................. 96
  at St. Louis, Mo.............................. 352
  at Thebes..................................... 356
Mississippi River main stem, gaging-station
    records in................................. 65-69, 96, 291-295, 352-356
Mitchellsville, South Fork Saline River at..... 386,400, 401,408
Mokeler Creek near Capron...................... 395
Mokena, Marley Creek near...................... 374
Momence, Kankakee River at..................... 101-103, 411
Money Creek near Towanda....................... 198,417
Monroe Center, Killbuck Creek near............. 360
Monticello, Sangamon River at.................. 236,418
Mooseheart, Lake Run near...................... 381
Morton Grove, North Branch Chicago
    River at................................... 370
Mount Prospect, Higgins Creek near............. 364
  McDonald Creek near........................... 118,412
  Weller Creek at............................... 364
Mt. Vernon, Sevenmile Creek near............... 333,423
Mud Creek (Kaskaskia River basin) near
    Marissa.................................... 329,423
Mud Creek (Rock River basin) near Marengo...... 387
Mulberry Grove, Hurricane Creek near........... 311,422
Mundelein, Diamond Lake drain at............... 362
  Hawthorn Drainage ditch at.................... 388
  Hawthorn Drainage ditch near.................. 362
Murphysboro, Big Muddy River at................ 339-351, 424
Mutton Creek at Island Lake.................... 377

Navajo Creek at Palos Heights.................. 372
Nebo, Bay Creek at............................. 100,411
New Boston, Edwards River near................. 93,410
New Minden, Little Crooked Creek near.......... 315,422
Niles, North Branch Chicago River at........... 131,413
Nippersink Creek, above Wonder Lake............ 398
  at Greenwood.................................. 377
  below Wonder Lake............................. 398
  near Alden.................................... 397
  near Greenwood................................ 397
  near Solon Mills.............................. 398
  near Spring Grove............................. 175-176
  North Branch, at Richmond..................... 398
    near Solon Mills............................ 377
  tributary at Alden............................ 397
Nippersink Lake at Fox Lake.................... 174
Nokomis, South Fork Sangamon River near........ 383
Nora, South Fork Apple River near.............. 358

Page

Normal, North Branch Sugar Creek at............ 251-254, 392
  North Branch Sugar Creek at Fort Jesse Road at............ 392
  North Branch Sugar Creek at Towanda Avenue at............ 392,404, 405,419
  North Branch Sugar Creek tributary at............ 392,404, 405,419
  Sugar Creek at Towanda Avenue at............ 391,404, 405,419
  Sugar Creek below Franklin Avenue at............ 249-250, 391
  West Branch Sugar Creek at............ 392,404, 405,419
North Aurora, Indian Creek near............ 380
North Creek near Lansing............ 139,414
North Mill Creek at Hickory Corners............ 361
North Pekin, Lick Creek at............ 391
Northbrook, West Fork of North Branch Chicago River at............ 130,413
Northfield, North Branch Chicago River at............ 369
  Skokie River at............ 369
Northlake, Addison Creek at............ 367
Norton Creek, near St. Charles............ 380
  near Wayne............ 379
Numbering system for wells and miscellaneous sites............ 7-8

Oak Brook, Salt Creek at............ 367
Oak Forest, Midlothian Creek at............ 142,414
  Tinley Creek near............ 372
  Tinley Creek tributary near............ 397
Oak Lawn, Melvina ditch near............ 373
  Stony Creek (West) tributary at............ 373
Oakford, Sangamon River near............ 263-267, 420
Oakley, Sangamon River near............ 238,418
Oblong, North Fork Embarras River near............ 28,407
Ohio River, at Golconda............ 54
  at Metropolis............ 55
  at Old Shawneetown............ 45-46
Ohio River main stem, gaging-station records in............ 45-46, 54-55
Old Mill Creek, Mill Creek at............ 362
Old Shawneetown, Ohio River at............ 45-46
Olympia Fields, Butterfield Creek at............ 396
Ontarioville, Poplar Creek near............ 379
  West Branch Du Page River at............ 374
Oquawka, Henderson Creek near............ 95,411
Oraville, Beaucoup Creek near............ 393,402, 403,424
Orchard Place, Willow Creek at............ 365
Oregon, Rock River at............ 77-78
Organism, definition of............ 4
Organism count/area, definition of............ 4
Organism count/volume, definition of............ 4
Orion, Edwards River near............ 92,410
Orland Park, Long Run near............ 397
  Spring Creek near............ 374
  Tinley Creek near............ 397
Otter Creek near Palmyra............ 287,420
Otter Creek tributary near Durand............ 358

Palatine, Arlington Heights Branch Salt Creek at............ 395
  East Branch Poplar Creek near............ 378
  Salt Creek at............ 365
  Salt Creek near............ 365
Palmyra, Otter Creek near............ 287,420
Palos Heights, Navajo Creek at............ 372
Palos Hills, Lucas ditch at............ 397
Palos Park, Crooked Creek near............ 390
  Mill Creek at............ 373
  Mill Creek near............ 373
  Tinley Creek near............ 145,415
Panther Creek (Big Muddy River basin) near Pyatts............ 393,402, 403,424
Panther Creek (Illinois River basin), East Branch, at El Paso............ 199,417
  near El Paso............ 383
Park Forest, Thorn Creek at............ 371
Park Ridge, Des Plaines River at............ 395
Partial-record station, definition of............ 4
Particle size, definition of............ 5
Particle-size classification, definition of............ 5
Pawnee, Horse Creek at............ 242,418
Paxton, Big Four Ditch tributary near............ 357
Pecatonica River at Freeport............ 70,409
Penrose, Elkhorn Creek near............ 79,410
Peoria, East Fork Dry Run at............ 391
  Illinois River at Lock & Dam at............ 196-197
  Kickapoo Creek at............ 383
Percent composition, definition of............ 5
Perryville, Kishwaukee River near............ 76,410
Pesotum, Kaskaskia River near............ 300,421
Pesticides, definition of............ 5
Petersburg, Sangamon River at............ 391,419
Picocurie, definition of............ 5
Pingree Creek near Udina............ 378
Pipestone Creek, near Ava............ 393,402, 403,424
  near Denmark............ 393,402, 403,424
Piscasaw Creek, at Chemung............ 395
  below Mokeler Creek near Capron............ 359
  near Lawrence............ 394
Pittsfield, Bay Creek at............ 99,411
Plankton, definition of............ 5
Plum Creek, at Dyer, Ind............ 396
  near Dyer, Ind............ 371
Plum River basin, gaging-station records in............ 64
  miscellaneous temperature measurements in............ 409
Plum River below Carroll Creek near Savanna............ 64,409
Plumfield, Big Muddy River at............ 335,423
Polychlorinated biphenyls, definition of............ 5
Pond Creek at West Frankfort............ 393,400, 401,423
Pontiac, Vermilion River at............ 189,416
Pope Creek basin, gaging-station records in............ 94
  miscellaneous temperature measurements in............ 411
Pope Creek near Keithsburg............ 94,411
Poplar Creek, at Elgin............ 181-183, 416
  East Branch, near Palatine............ 378
  near Barrington............ 398
  near Bartlett............ 398
  near Elgin............ 398
  near Ontarioville............ 379
  tributary near Bartlett............ 379
Potomac, Bluegrass Creek at............ 357
Prairie View, Indian Creek at............ 363
Prentiss Creek near Lisle............ 377
Primary productivity, definition of............ 5
Princeton, Big Bureau Creek at............ 191,416
Publications on techniques of water-resources investigations............ 13-14
Pyatts, Panther Creek near............ 393,402, 403,424

Raccoon Creek tributary near Annapolis............ 357
Range Creek near Casey............ 26,406
Raymond, Blue Grass Creek near............ 316,422
Rector Creek near Texas City............ 387,400, 401,408
Reeders, Bear Creek tributary near............ 384
Rend Lake near Benton............ 334
Richland Creek near Hecker............ 332,423
Richmond, Elizabeth Lake drain at............ 398
  North Branch Nippersink Creek at............ 398
Riley, Coon Creek at............ 73,409
  Coon Creek near............ 394
  Riley Creek at............ 394
Riley Creek at Riley............ 394
Ripley, La Moine River at............ 272-274
River Grove, Des Plaines River at............ 365
Riverside, Des Plaines River at............ 123,413
Riverton, Sangamon River at............ 383
Robbins, Midlothian Creek at............ 397
Rochester, South Fork Sangamon River near............ 244,419
Rock River, at Como............ 360
  at Oregon............ 77-78
  at Rockton............ 71,409
  near Joslin............ 80-89, 410
  tributary on Taft Road at Rockford............ 387
Rock River basin, crest-stage partial-record stations in............ 358-360
  discharge measurements at miscellaneous sites in............ 387
  gaging-station records in............ 70-91
  miscellaneous temperature measurements in............ 409-410
  stage data in northeastern Illinois in............ 394-395
Rockdale, Des Plaines River at............ 149-150

Page

Rockford Drainage Ditch at 26th Street at Rockford.......... 72,387
Rockford, Rock River tributary on Taft Road at. 387
  Rockford Drainage Ditch at 26th Street at.... 72,387
Rockton, Rock River at.......... 71,409
Rolling Meadows, Salt Creek at.......... 120,413
  Salt Creek tributary No. 2 near.......... 388
Romeo, Chicago Sanitary and Ship Canal at...... 146-147
  Des Plaines River at.......... 125-126
Roodhouse, Hurricane Creek near.......... 384
Roselle, West Branch Salt Creek near.......... 395
Roseville, Ellison Creek tributary near.......... 361
Rowell, Salt Creek near.......... 246,419
Runoff in inches, definition of.......... 6
Rush Creek, near Capron.......... 394
  near Garden Prairie.......... 359
Russell, Des Plaines River at.......... 112,412

St. Augustine, Cedar Creek tributary at.......... 383
St. Charles, Ferson Creek near.......... 184,416
  Norton Creek near.......... 380
St. David, Big Creek at.......... 207-213, 417
St. Joseph Creek at Belmont.......... 377
St. Joseph, Salt Fork near.......... 21,406
St. Louis, Mo., Mississippi River at.......... 352
Ste. Marie, Embarras River at.......... 27,406
Sag Bridge, Calumet Sag Channel at.......... 390
  Chicago Sanitary and Ship Canal near.......... 389
Saline Branch near Urbana.......... 386
Saline River, South Fork, at Mitchellsville.... 386,400, 401,408
  South Fork, near Carrier Mills.......... 47-50, 408
Saline River basin, crest-stage partial-record stations in.......... 358
  discharge measurements at miscellaneous sites in.......... 386-387
  gaging-station records in.......... 47-52
  miscellaneous temperature measurements in.... 408
  water-quality partial-record stations in..... 400-401
Salt Creek (tributary to Des Plaines River), Arlington Heights Branch, at Palatine.... 395
  at Addison.......... 366
  at Elmhurst.......... 367
  at Oak Brook.......... 367
  at Palatine.......... 365
  at Rolling Meadows.......... 120,413
  at Western Springs.......... 121,413
  near Palatine.......... 365
  near Wood Dale.......... 366
  tributary No. 2 near Rolling Meadows.......... 388
  West Branch, at Schaumburg.......... 395
    near Roselle.......... 395
Salt Creek (tributary to Sangamon River), near Greenview.......... 262,419
  near Rowell.......... 246,419
Salt Fork, near Homer.......... 357
  near St. Joseph.......... 21,406
  tributary near Catlin.......... 357
Salt Spring Creek basin, crest-stage partial-record stations in.......... 361
Salt Spring Creek near Gilead.......... 361
Sand Creek near Milan.......... 360
Sangamon River, at Mahomet.......... 235,418
  at Monticello.......... 236,418
  at Petersburg.......... 391,419
  at Riverton.......... 383
  near Oakford.......... 263-267, 420
  near Oakley.......... 238,418
  South Fork, at Kincaid.......... 383
    near Nokomis.......... 383
    near Rochester.......... 244,419
  tributary at Andrew.......... 383
Sauk Village, Deer Creek near.......... 396
  Lansing ditch at.......... 396
Savanna, Plum River below Carroll Creek near.......... 64,409
Sawmill Creek, near Lemont.......... 368
  tributary near Tiedtville.......... 367
Schaumburg, West Branch Du Page River at....... 390
  West Branch Salt Creek at.......... 395
Schiller Park, Crystal Creek at.......... 395
  Crystal Creek near.......... 395
Sediment, definition of.......... 6
Sevenmile Creek near Mt. Vernon.......... 333,423
Seville, Spoon River at.......... 206,417

Page

Sexton Creek basin, crest-stage partial-record stations in.......... 385
Shelbyville, Kaskaskia River at.......... 307,421
  Lake Shelbyville near.......... 306
Shoal Creek, East Fork, near Coffeen.......... 317,422
  near Breese.......... 318,422
Shorewood, Du Page River at.......... 158,415
Silver Creek (Illinois River basin), at Franklin Park.......... 395
  at Melrose Park.......... 365
Silver Creek (Kaskaskia River basin, near Freeburg.......... 331,423
  near Troy.......... 330,423
Sinclair, Indian Creek tributary near.......... 384
Sinsinawa River basin, gaging-station records in.......... 62
  miscellaneous temperature measurements in.... 409
Sinsinawa River near Menominee.......... 62,409
Skillet Fork, at Wayne City.......... 42,407
  near Iuka.......... 40,407
  near Mill Shoals.......... 43,386, 408
Skokie River, at Glencoe.......... 396
  at Lake Bluff.......... 369
  at Lake Forest.......... 128,413
  at Northfield.......... 369
  near Highland Park.......... 129,413
Skunk Creek at Bloomington.......... 392,404, 405,419
Slug Run near Bryant.......... 227-234, 418
Soldier Creek at Bradley.......... 387
Solon Mills, Nippersink Creek near.......... 398
  North Branch Nippersink Creek near.......... 377
Solute, definition of.......... 6
South Henderson Creek at Biggsville.......... 360
South Holland, Calumet Union Drainage Canal at.......... 396
  Little Calumet River at.......... 141,414
Sparland, Gimlet Creek at.......... 382
Special networks and programs.......... 8
Specific conductance, definition of.......... 6
Spoon River, at London Mills.......... 205,417
  at Seville.......... 206,417
Spring Brook (tributary to Salt Creek), at Bloomingdale.......... 366
  at Walnut Avenue at Itasca.......... 366
Spring Brook (tributary to West Branch Du Page River) at Wheaton.......... 375
Spring Creek (Rock River basin), near Garden Prairie.......... 359
Spring Creek (tributary to Fox River), at Fox River Grove.......... 378
  near Carpentersville.......... 398
Spring Creek (tributary to Hickory Creek) near Orland Park.......... 374
Spring Creek (tributary to Sangamon River), at Sanitary Plant at Springfield.......... 391
  at Springfield.......... 245,419
Spring Creek (tributary to Stevens Creek), at Decatur. 391
  tributary at Decatur.......... 239-240
Spring Grove, Nippersink Creek near.......... 175-176
Springfield, Jacksonville Branch at Churchill Road at.......... 391
  Spring Creek at.......... 245,419
  Spring Creek at Sanitary Plant at.......... 391
Stage and water-discharge data, accuracy of.... 10-11
  collection and computation of.......... 8-10
  explanation of.......... 8-11
  other available.......... 11
Stage-discharge relation, definition of.......... 6
Starved Rock, Illinois River at.......... 187-188
Steger, Deer Creek near.......... 396
Stevens Creek, at Decatur.......... 391
  near Decatur.......... 391
Stonefort, Sugar Creek near.......... 386,400, 401,408
Stony Creek (West), at Worth.......... 373
  near Worth.......... 397
  tributary at Oak Lawn.......... 373
Streams tributary to Lake Michigan, discharge measurements at miscellaneous sites in... 387
  gaging-station records in.......... 57-61
Streamflow, definition of.......... 6
Streator, Vermilion River at.......... 390,416
Stringtown Branch tributary near Lake City..... 385
Substrate, definition of.......... 6

Page
Sugar Creek (Bay Creek basin) near Dixon Springs..... 358
Sugar Creek (Kaskaskia River basin) at Albers.. 319,422
Sugar Creek (Saline River basin) near Stonefort..... 386,400, 401,408
Sugar Creek (tributary to Iroquois River) at Milford..... 105,412
Sugar Creek (tributary to Salt Creek), above Sewage Plant at Bloomington..... 257-258, 392
  at Market Street at Bloomington..... 392,404, 405,419
  at Towanda Avenue at Normal..... 391,404, 405,419
  below Franklin Avenue at Normal..... 249-250, 391
  Country Club Branch, at Bloomington..... 391,404, 405,419
  near Bloomington..... 259-261
  near Hartsburg..... 384
  North Branch, at Fort Jesse Road at Normal... 392
    at Normal..... 251-254, 392
    at Towanda Avenue at Normal..... 392,404, 405,419
    tributary at Normal..... 392,404, 405,419
  West Branch, at Normal..... 392,404, 405,419
Sugar Grove, Blackberry Creek near..... 381
Sullivan, Asa Creek at..... 305,421
Surface area, definition of..... 6
Surficial bed material, definition of..... 6
Suspended, definition of..... 7
Sycamore Creek near Carbondale..... 393,402, 403,424

Taxonomy, definition of..... 7
Taylorville, Flat Branch near..... 241,418
Texas City, Rector Creek near..... 387,400, 401,408
Thebes, Mississippi River at..... 356
Thorn Creek, at Chicago Heights..... 396
  at Glenwood..... 135,414
  at Park Forest..... 371
  at Thornton..... 140,414
  near Chicago Heights..... 134,414
  tributary at Chicago Heights..... 371
Thornton, Thorn Creek at..... 140,414
Tiedtville, Sawmill Creek tributary near..... 367
Time-weighted average, definition of..... 7
Tinley Creek, near Oak Forest..... 372
  near Orland Park..... 397
  near Palos Park..... 145,415
  tributary near Oak Forest..... 397
Tinley Park, Flossmoor Road Drainage ditch near..... 397
  Midlothian Creek at..... 396
  Midlothian Creek near..... 372
  Union Drainage ditch No. 1 near..... 397
Tons per acre-foot, definition of..... 7
Tons per day, definition of..... 7
Total load, definition of..... 7
Towanda, Money Creek near..... 198,417
Troxel, East Branch Big Rock Creek near..... 390
Troy, Silver Creek near..... 330,423
Tyler Creek, at Elgin..... 378
  near Gilberts..... 378

Udina, Pingree Creek near..... 378
Union Drainage ditch No. 1 near Tinley Park.... 397
Union, North Branch Kishwaukee River near..... 359
  South Branch Kishwaukee River (East) at..... 359
  South Branch Kishwaukee River (East) near.... 394
Urbana, Boneyard Creek at..... 22,406
  Boneyard Creek at Vine Street at..... 386
  Saline Branch near..... 386

Valley City, Illinois River at..... 278-286, 420
Valley View, Brewster Creek at..... 379
Vandalia, Kaskaskia River at..... 310,422

Page
Vander Karr Creek near Greenwood..... 398
Venedy Station, Kaskaskia River near..... 320-328, 423
Vermilion River (Illinois River basin), at Pontiac..... 189,416
  at Streator..... 390,416
  near Leonore..... 190,416
  North Fork, near Charlotte..... 382
Vermilion River (Wabash River basin) near Danville..... 23,406
Virgil ditch No. 3 at Virgil..... 359
Virgil, Virgil ditch No. 3 at..... 359

Wabash River basin, crest-stage partial-record stations in..... 357-358
  discharge measurements at miscellaneous sites in..... 386
  gaging-station records in..... 21-44
  miscellaneous temperature measurements in.... 406-408
Wanda, Indian Creek at..... 297,420
Wards Creek near Woodridge..... 368
Warrenville, Ferry Creek at..... 376
  West Branch Du Page River near..... 155-157, 415
Wasco, Ferson Creek at..... 380
  Mill Creek near..... 380
Washburn, Crow Creek near..... 382
Water-quality data, collection and examination of..... 11-12
  explanation of..... 11-12
  sediment..... 12
  water analysis..... 11
  water temperature..... 11
Wayne City, Skillet Fork at..... 42,407
Wayne, Norton Creek near..... 379
  West Branch Du Page River near..... 374
Waynesville, Kickapoo Creek at..... 248,419
WDR, definition of..... 7
Wedges Corner, Mill Creek at..... 361
Weighted average, definition of..... 7
Welch Creek near Big Rock..... 382
Weller Creek, at Des Plaines..... 119,412
  at Mount Prospect..... 364
West Bureau Creek, at Wyanet..... 382
  tributary near Wyanet..... 382
West Chicago, Kress Creek at..... 375
  West Branch Du Page River at..... 375
  West Branch Du Page River near..... 154,415
West Frankfort, Pond Creek at..... 393,400, 401,423
West Slough at Bloomington..... 255-256, 392
Western Springs, Salt Creek at..... 121,413
Wetaug, Big Creek near..... 385
Wheaton, Spring Brook at..... 375
Wheeling, Buffalo Creek near..... 116,412
  Des Plaines River at..... 363
  McDonald Creek near..... 364
  Wheeling Drainage ditch at..... 395
Wheeling Drainage ditch at Wheeling..... 395
White Feather Creek near Marlow..... 358
Willow Creek, at Elk Grove Village..... 364
  at Orchard Place..... 365
Willow Springs, Flag Creek near..... 124,413
Wilmington, Kankakee River near..... 107-111, 412
Winfield Creek at Winfield..... 375
Winfield, Winfield Creek at..... 375
Witt, Hurricane Creek tributary near..... 385
Wolf Creek near Beecher City..... 309,421
Wolf Lake at Chicago..... 59
Wonder Lake, Nippersink Creek above..... 398
  Nippersink Creek below..... 398
Wood Dale, Salt Creek near..... 366
Woodridge, Wards Creek near..... 368
Worth, Stony Creek (West) at..... 373
  Stony Creek (West) near..... 397
WSP, definition of..... 7
Wyanet, West Bureau Creek at..... 382
  West Bureau Creek tributary near..... 382
Wyoming, Indian Creek near..... 204,417

Yorkville, Blackberry Creek near..... 185,416

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FACTORS FOR CONVERTING U.S. CUSTOMARY UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the U.S. customary units published herein to the International System of Units (SI). Subsequent reports will contain both the U.S. customary and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply U.S. customary units	By	To obtain SI units
	Length	
inches (in)	$2.54\text{x}10^{1}$	millimeters (mm)
	$2.54\text{x}10^{-2}$	meters (m)
feet (ft)	$3.048\text{x}10^{-1}$	meters (m)
miles (mi)	$1.609\text{x}10^{0}$	kilometers (km)
	Area	
acres	$4.047\text{x}10^{3}$	square meters (m^2)
	$4.047\text{x}10^{-1}$	square hectometers (hm^2)
	$4.047\text{x}10^{-3}$	square kilometers (km^2)
square miles (mi^2)	$2.590\text{x}10^{0}$	square kilometers (km^2)
	Volume	
gallons (gal)	$3.785\text{x}10^{0}$	liters (L)
	$3.785\text{x}10^{0}$	cubic decimeters (dm^3)
	$3.785\text{x}10^{-3}$	cubic meters (m^3)
million gallons	$3.785\text{x}10^{3}$	cubic meters (m^3)
	$3.785\text{x}10^{-3}$	cubic hectometers (hm^3)
cubic feet (ft^3)	$2.832\text{x}10^{1}$	cubic decimeters (dm^3)
	$2.832\text{x}10^{-2}$	cubic meters (m^3)
cfs-days	$2.447\text{x}10^{3}$	cubic meters (m^3)
	$2.447\text{x}10^{-3}$	cubic hectometers (hm^3)
acre-feet (acre-ft)	$1.233\text{x}10^{3}$	cubic meters (m^3)
	$1.233\text{x}10^{-3}$	cubic hectometers (hm^3)
	$1.233\text{x}10^{-6}$	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	$2.832\text{x}10^{1}$	liters per second (L/s)
	$2.832\text{x}10^{1}$	cubic decimeters per second (dm^3/s)
	$2.832\text{x}10^{-2}$	cubic meters per second (m^3/s)
gallons per minute (gal/min)	$6.309\text{x}10^{-2}$	liters per second (L/s)
	$6.309\text{x}10^{-2}$	cubic decimeters per second (dm^3/s)
	$6.309\text{x}10^{-5}$	cubic meters per second (m^3/s)
million gallons per day	$4.381\text{x}10^{1}$	cubic decimeters per second (dm^3/s)
	$4.381\text{x}10^{-2}$	cubic meters per second (m^3/s)
	Mass	
tons (short)	$9.072\text{x}10^{-1}$	megagrams (Mg) or metric tons